

WINSTA®

Full Line Catalog 2008/2009

**ELECTRICAL
INTERCONNECTIONS**

5

WAGO®
INNOVATIVE CONNECTIONS

Contents FULL LINE CATALOG W4, Volume 1 • Rail-Mounted Terminal Block Systems

Rail-Mounted Terminal Blocks	
X-COM®-SYSTEM	
Terminal Strips	
Patchboard Systems	
Shield (Screen) Connecting System	

Contents FULL LINE CATALOG W4, Volume 2 • PCB Terminal Blocks and Connectors

PCB Terminal Blocks	
Feedthrough Terminal Blocks	
PCB Connectors	
Connectors for Special Applications	

Contents Full Line Catalog 2008/2009 • I/O SYSTEM

Modular I/O SYSTEM IP20 / IP67	
Radio Technology	
AS-Interface I/O SYSTEM IP20/67 ; Block I/O SYSTEM IP67	
Sensor/Actuator Boxes IP67	
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Power Supplies	

Contents Full Line Catalog 2008/2009 • Interface Modules

Interface Modules	
Sensor/Actuator Boxes IP67	
Radio Technology	
Overvoltage Protection	
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Empty Housings and DIN-Rail Mounting Carriers	

1



WINSTA® MINI 890/891 Series, 2 and 3 Poles
Connectors, Snap-In Device Connectors, Distribution Connectors, Cable Assemblies

1

2



WINSTA® MIDI 770/771 Series, 3, 4, 5, 6 and 7 Poles
Connectors, Snap-In Device Connectors, PCB Connectors, Distribution Connectors, Cable Assemblies

2

3



WINSTA® MAXI 831 Series, 5 poles
Connectors

3

4



WINSTA® RD 774 Series, 3 and 4 Poles
Cable Assemblies

4

5



WINSTA® KNX 893/894 Series, 2 Poles
Connectors, Snap-In Device Connectors, Distribution Connectors, Cable Assemblies

5

6



WINSTA® IDC 772/893/895/896/897 Series
Supply and Tap-Off Modules for Flat Cables

6

7



Tools and Marking Accessories
Screwdrivers, Stripping Tools, Cable Cutters, Stripping Pliers, Marker Strips

7

8



System Partners
for Lighting Fixtures, Office Furniture, Installations

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9



Reference Projects
Office Buildings, Rolling Stock, Marine Applications, Motor Homes, Trade Show Design, ...

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Technical Section
Coding System, Your Questions - Our Answers, Technical Data, Item Numbers, Index, Addresses

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WINSTA® – New Products

WINSTA® MINI

For use in applications where space is limited

- Sensors (switches, push buttons, window contacts, pressure switches, temperature sensors...)
- Actuators (control valves, magnetic valves, servo motors, blinds/sun protection...)
- Protection class II for halogen lamps and luminaires
- Control signals
- 1.5 mm²/AWG 16, 250 V, 16 A



WINSTA® MIDI

For the majority of applications

- General building installation, especially for modern functional buildings
- Standard lighting fixtures and safety lights
- Tradeshow and shop installation
- Caravan construction
- Lab work stations
- Rolling stock
- Marine applications
- 4 mm²/AWG 12, 250/400 V, 25 A



WINSTA® MAXI

For more power

- Power supply via 6 mm²/AWG 10 cable due to extended cable runs
- 32 A power supply in distribution boxes for high energy demands
- 6 mm²/AWG 10 250/400 V, 32 A



WINSTA® -
The perfect connection!

Under-floor distribution boxes

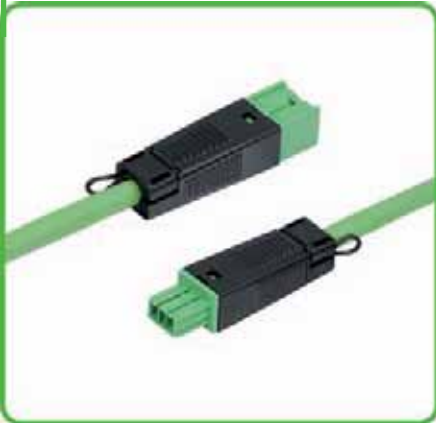


Enhance The System

WINSTA® KNX

For the standardized bus

- KNX/EIB
- Control signals
- Ø 0.8 mm/0.031 in, 50 V, 3 A



WINSTA® IDC

For a high degree of flexibility

- Supply and tap off is possible at any time and at any location from the flat cable. No cutting, no need to remove outer or inner insulation → thus very user-friendly
- A 120° rotation is all that is required to connect the flat cable
- Space saving across the flat cable through longitudinal tap off
- 2.5/4 mm²/AWG 14/12 400 V, 25 A
- 10 mm²/AWG 8 690 V, 57 A
- 16 mm²/AWG 6 690 V, 76 A



WINSTA® RD

For round conduits and ducts

- External diameter of 17.5 mm/0.68 in allows for use in wiring conduits with an internal diameter > 18 mm/0.70 in
- Prefabricated houses
- Recessed luminaires
- Wall and ceiling cutouts



Cable ducts



Lighting



WINSTA® IDC – with New

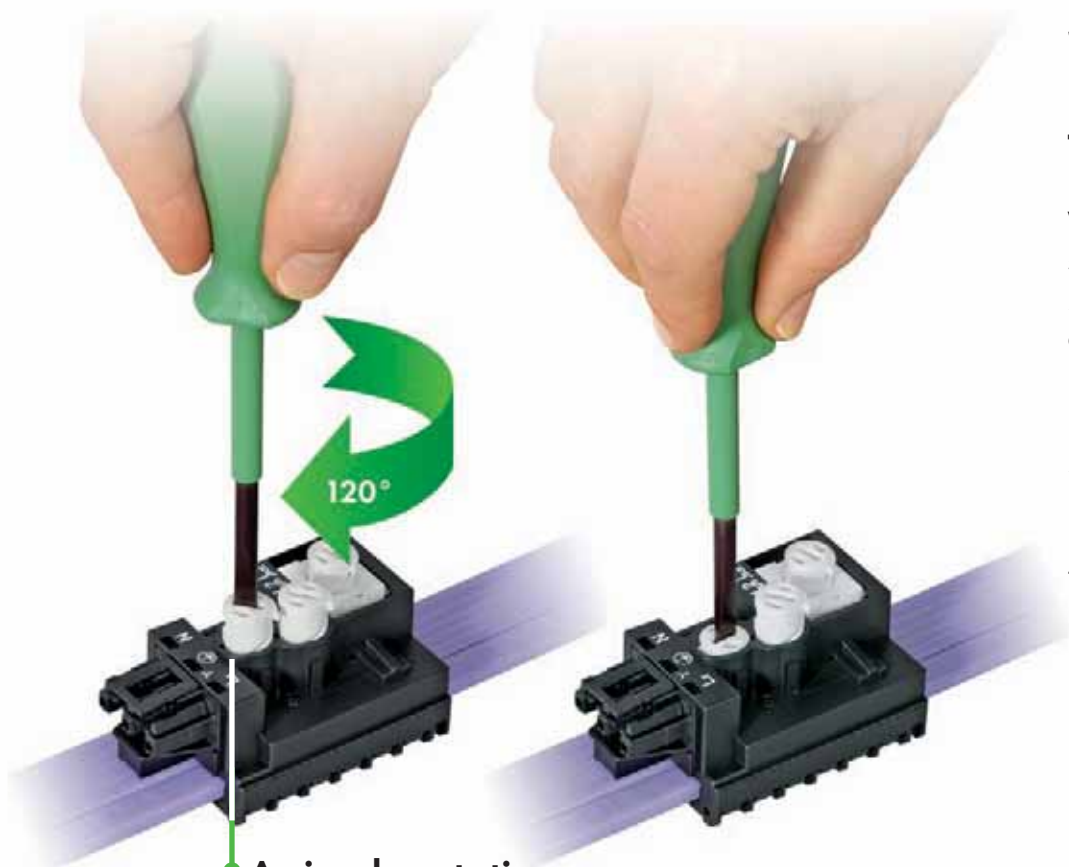
WINSTA® – The

The new dimension

WINSTA® IDC/MIDI,
system for flat cables
2.5 mm²/AWG 14
and 4 mm²/AWG 12
up to 25 A

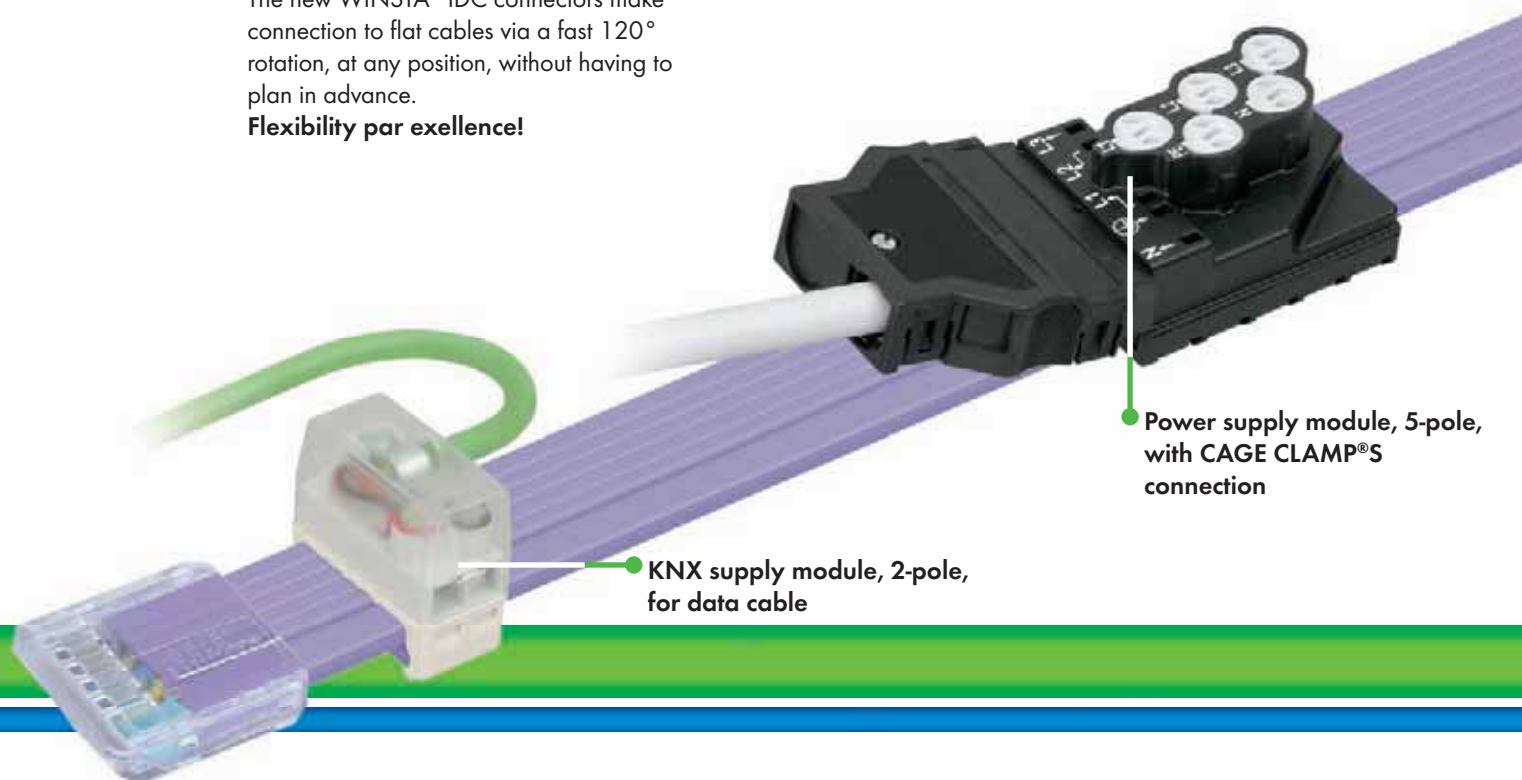
Space saving

Pluggable tap-off modules **along**
the flat cable



A simple rotation connects

The new WINSTA® IDC connectors make
connection to flat cables via a fast 120°
rotation, at any position, without having to
plan in advance.
Flexibility par excellence!



Power supply module, 5-pole,
with CAGE CLAMP®
connection

KNX supply module, 2-pole,
for data cable

Ideas Perfectly Detailed

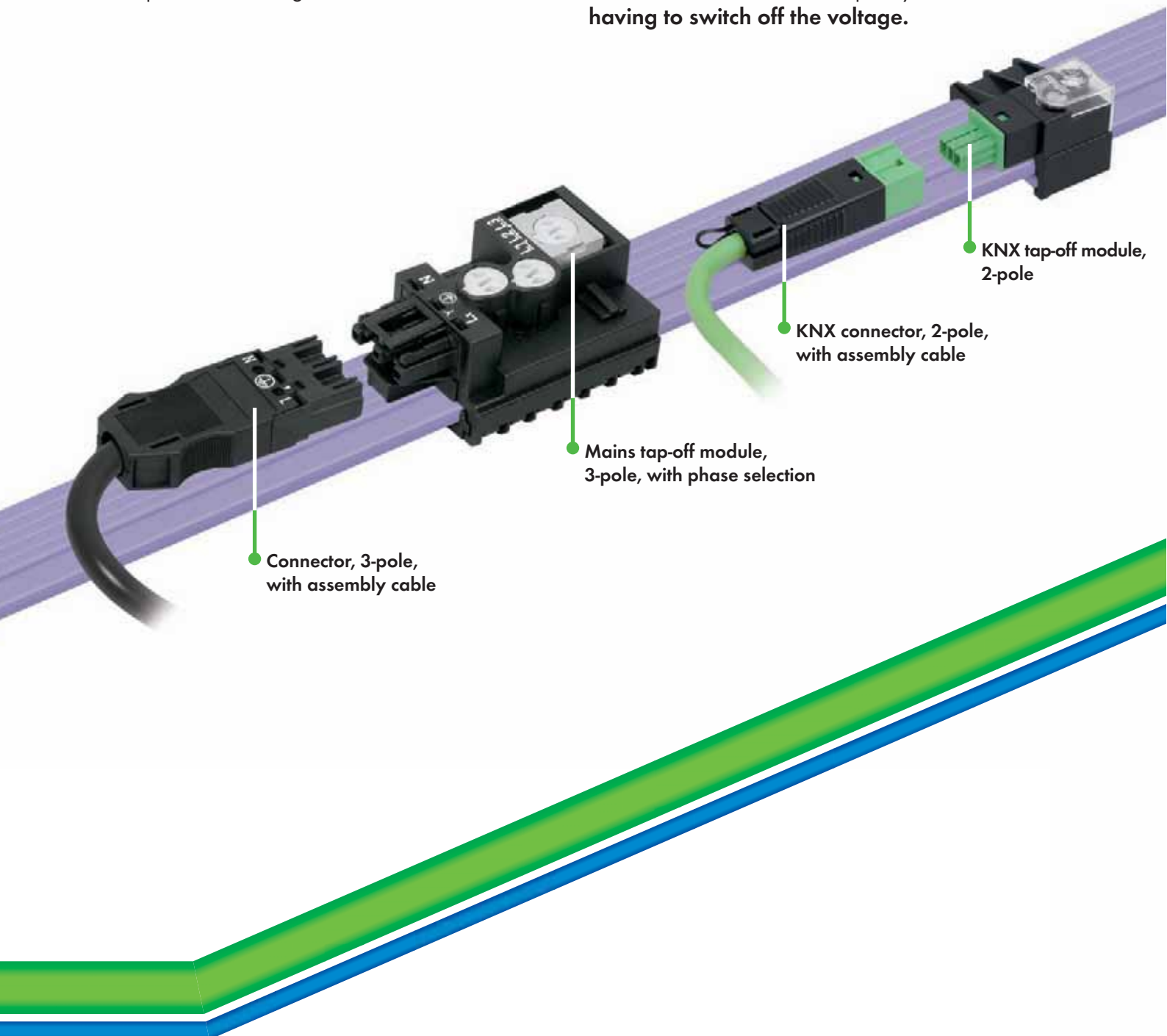
Only Choice for Perfect Building Installations

With integrated phase selection

Very important feature, especially for flat cables with long cable runs and a large number of taps off, of differing loads.

Fully insulated

Using tap-off modules from the 772 Series WINSTA® IDC/MIDI system, additional loads can also be connected subsequently **without having to switch off the voltage**.



Connector, 3-pole,
with assembly cable

Mains tap-off module,
3-pole, with phase selection

KNX connector, 2-pole,
with assembly cable

KNX tap-off module,
2-pole

WINSTA[®] – New Benefits

Maximum Time Savings

- Completely designed with CAGE CLAMP[®]S connection
- Quality-checked cable assemblies
- Fast IDC tap-off



Utmost Flexibility

- Product diversity provides individual solutions
- Equal phase loading and simple and easy phase switching if designs change
- Circuit distributors instead of junction boxes



WINSTA[®] MINI up to 1.5 mm²/AWG 16 up to **16 A**
WINSTA[®] MIDI up to 4 mm²/AWG 12 up to **25 A**
WINSTA[®] MAXI up to 6 mm²/AWG 10 up to **32 A**
WINSTA[®] IDC up to 16 mm²/AWG 6 up to **76 A**

for All Applications

Maximum Safety

- 100% protected against mismatching
- Fixed and variable coding system
- Touch-safe/finger-safe



Optimal Benefits

- Receptive to new customer designs and specifications
- Sophisticated logistic support from concept to delivery
- Professional project-related consulting





890 Series
Connectors, 2 Poles
Connectors, 3 Poles

10 – 11
16 – 17



890 Series
Snap-In Device Connectors, 2 Poles
Snap-In Device Connectors, 3 Poles

12
18



890 Series
Distribution Connectors, 2 Poles
Distribution Connectors, 3 Poles

13
19

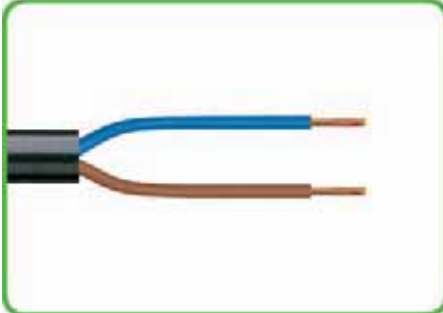


891 Series
Cable Assemblies, 2 Poles
Cable Assemblies, 3 Poles

14 – 15
20

Handling WINSTA® MINI 890 Series

Preparation



- 1. Strip length, outer insulation = 30 mm / 1.18 in
- 2. Strip length = 9 mm / 0.31 in

Wire connection with CAGE CLAMP®S



Actuate the clamp using a screwdriver (blade width 2.5 mm/0.098 in) to connect flexible conductors and insert the stripped conductor up to the stop. Solid conductors can be plugged directly.

Strain relief assembly



Latch wired connector onto the base of the strain relief housing.



Push down strain relief clamp by hand.



Push down strain relief clamp with a screwdriver (blade width 2.5 mm/0.098 in) alternately on both sides.

Strain relief assembly



Latch the top of the strain relief housing.

Locking lever assembly





All products for fixed installations (snap-in versions, distribution connectors) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for "flying leads" (plug/socket).

Marking





The printed marking of the connector is clearly visible in the opening of the strain relief housing.

<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 - 16</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 - 16</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, 2 poles, with CAGE CLAMP®S connection	Sockets with strain relief housing, for cable diameter 3.8 - 8.2 mm / 0.15 - 0.32 in			Plugs with strain relief housing, for cable diameter 3.8 - 8.2 mm / 0.15 - 0.32 in		
	black	890-102	● 50	black	890-112	● 50
	white	890-122	○ 50	white	890-132	○ 50

Accessories

<p>Locking levers, tool operated, for "flying leads"</p> 	<p>black 890-111 100 (2 x 50)</p> <p>white 890-131 100 (2 x 50)</p>	<p>black 890-111 100 (2 x 50)</p> <p>white 890-131 100 (2 x 50)</p>
<p>Operating tool, insulated, 2-way</p> 	<p>890-392 1</p>	<p>890-392 1</p>

Info	Dimensions
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

① Wire range: 0.25 - 1.5 mm² "s + f-st"
0.25 - 1 mm² "stranded"

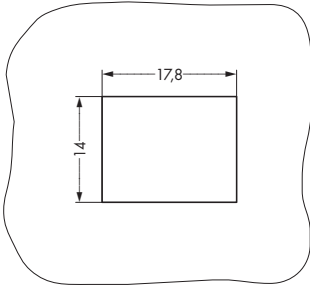
② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (L+ N-)
○ white Coding A (L+ N-)
● gray Coding B (1 2)
● blue Coding I (+ -)





Please find some information on the different codings on pages 146 and 147

* Overall length of the connectors in mated condition

Cut-out dimensions Sheet thickness: 0.5 mm to 2 mm (0.02 - 0.078 in) Tolerance of the cut-out: + 0.1 mm / 0.0039 in	0.25 – 1.5 mm ² ① 250 V/4 kV/3 16 A  9 mm / 0.35 in ② Approvals	AWG 22 - 16	0.25 – 1.5 mm ² ① 250 V/4 kV/3 16 A  9 mm / 0.35 in ② Approvals	AWG 22 - 16
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 2 poles, with CAGE CLAMP®S connection	Sockets			Plugs		
	black	890-702	● 50	black	890-712	● 50
	white	890-722	○ 50	white	890-732	○ 50
	gray	890-742	● 50	gray	890-752	● 50
	blue	890-2102	● 50	blue	890-2112	● 50

Accessories						
Lockout caps, for cut-out						
	black	890-642	100	black	890-642	100
	white	890-692	100	white	890-692	100
Mounting plates, for distribution connectors						
						
Fixing pin, for mounting plates,						
	5.1 x 1.5 - 2.5 mm /			0.2 x 0.059 - 0.098 in		
Operating tool, insulated,						
	2-way			890-392		1
			890-392	1	890-392	

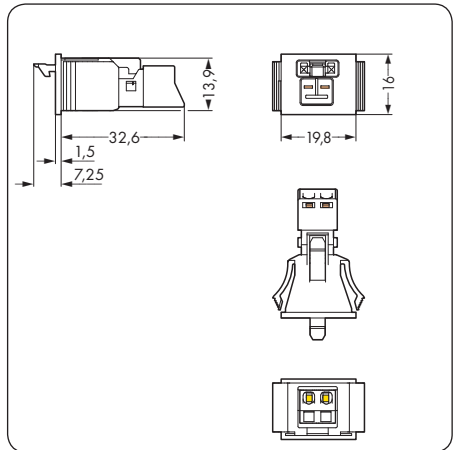
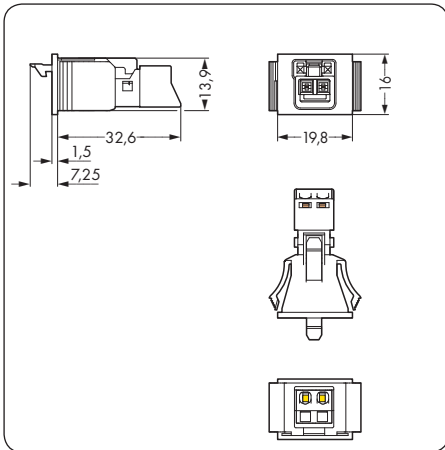
Info	Dimensions (in mm)
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① Wire range: 0.25 - 1.5 mm² "s + f-st"
0.25 - 1 mm² "stranded"

② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (L+ N-)
○ white Coding A (L+ N-)
● gray Coding B (1 2)
● blue Coding I (+ -)

Please find some information on the different codings on pages 146 and 147

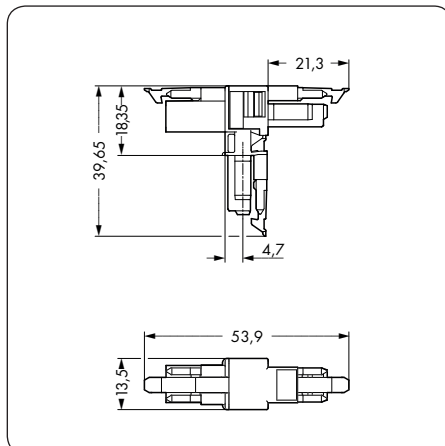
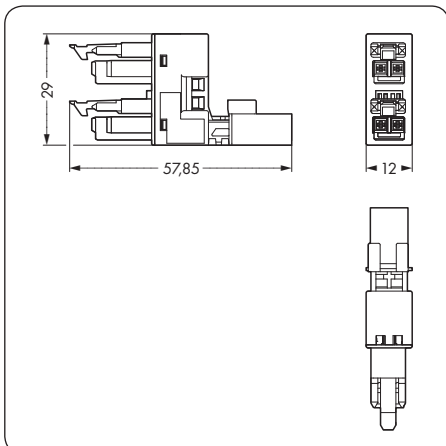
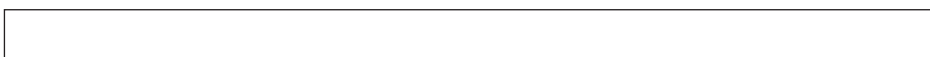



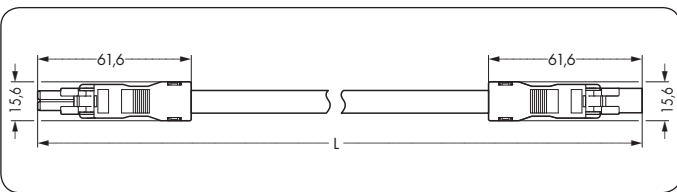

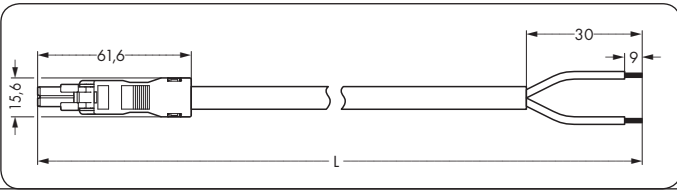

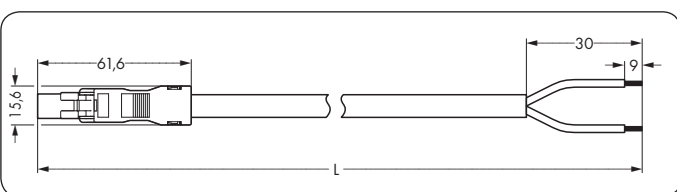

Distribution Connectors, 2 Poles

250 V/4 kV/3 16 A ② Approvals	250 V/4 kV/3 16 A ② Approvals
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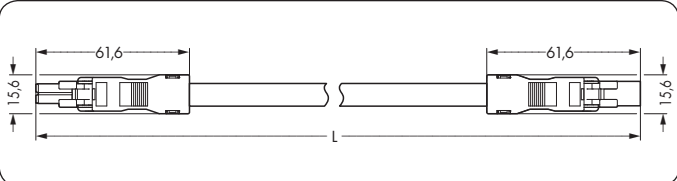

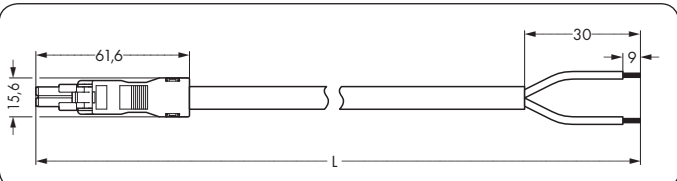

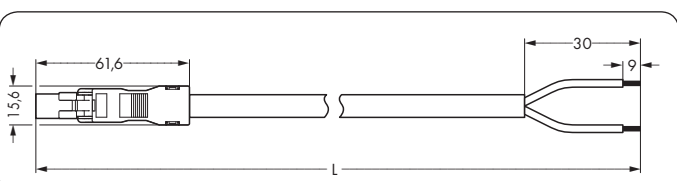



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
h-distribution connectors, unidirectional, plug / socket - socket			T-distribution connectors		
			1 x plug / 2 x socket		
black	890-1634 ●	50	black	890-1606 ●	25
white	890-1684 ○	50	white	890-1656 ○	25
			blue	890-1617 ●	25
for "flying leads", with 3rd locking lever			for "flying leads", with 3rd locking lever		
black	890-1636 ●	50	black	890-1615 ●	25
white	890-1686 ○	50	white	890-1665 ○	25
			blue	890-1620 ●	25
black	890-1622	100			
white	890-1672	100			
black	890-601	250			



		PVC H05VV-F 2x1 halogen-free H05Z1Z1-F 2x1 250 V/4 kV/3 10 A Wire ends bonded 9 mm / 0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/005-101	.../005-102	891-8992/015-101	.../015-102
		2 m	891-8992/005-201	.../005-202	891-8992/015-201	.../015-202
		3 m	891-8992/005-301	.../005-302	891-8992/015-301	.../015-302
		4 m	891-8992/005-401	.../005-402	891-8992/015-401	.../015-402
		5 m	891-8992/005-501	.../005-502	891-8992/015-501	.../015-502
		6 m	891-8992/005-601	.../005-602	891-8992/015-601	.../015-602
		7 m	891-8992/005-701	.../005-702	891-8992/015-701	.../015-702
		8 m	891-8992/005-801	.../005-802	891-8992/015-801	.../015-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/105-101	.../105-102	891-8992/115-101	.../115-102
		2 m	891-8992/105-201	.../105-202	891-8992/115-201	.../115-202
		3 m	891-8992/105-301	.../105-302	891-8992/115-301	.../115-302
		4 m	891-8992/105-401	.../105-402	891-8992/115-401	.../115-402
		5 m	891-8992/105-501	.../105-502	891-8992/115-501	.../115-502
		6 m	891-8992/105-601	.../105-602	891-8992/115-601	.../115-602
		7 m	891-8992/105-701	.../105-702	891-8992/115-701	.../115-702
		8 m	891-8992/105-801	.../105-802	891-8992/115-801	.../115-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/205-101	.../205-102	891-8992/215-101	.../215-102
		2 m	891-8992/205-201	.../205-202	891-8992/215-201	.../215-202
		3 m	891-8992/205-301	.../205-302	891-8992/215-301	.../215-302
		4 m	891-8992/205-401	.../205-402	891-8992/215-401	.../215-402
		5 m	891-8992/205-501	.../205-502	891-8992/215-501	.../215-502
		6 m	891-8992/205-601	.../205-602	891-8992/215-601	.../215-602
		7 m	891-8992/205-701	.../205-702	891-8992/215-701	.../215-702
		8 m	891-8992/205-801	.../205-802	891-8992/215-801	.../215-802
Info		① Approval data can be found in the online catalog at www.wagocatalog.com Other cables on request ● black Coding A (L+ N-) ○ white Coding A (L+ N-)				
		Please find some information on the different codings on pages 146 and 147				
Accessories		Locking levers, tool operated, for "flying leads"				
		black	890-111	100	2 x 50	
		white	890-131	100	2 x 50	

Cable Assemblies 2 x 1.5 mm²/AWG 16




		PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5 250 V/4 kV/3 16 A Wire ends bonded 9 mm / 0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/006-101	.../006-102	891-8992/016-101	.../016-102
		2 m	891-8992/006-201	.../006-202	891-8992/016-201	.../016-202
		3 m	891-8992/006-301	.../006-302	891-8992/016-301	.../016-302
		4 m	891-8992/006-401	.../006-402	891-8992/016-401	.../016-402
		5 m	891-8992/006-501	.../006-502	891-8992/016-501	.../016-502
		6 m	891-8992/006-601	.../006-602	891-8992/016-601	.../016-602
		7 m	891-8992/006-701	.../006-702	891-8992/016-701	.../016-702
		8 m	891-8992/006-801	.../006-802	891-8992/016-801	.../016-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/106-101	.../106-102	891-8992/116-101	.../116-102
		2 m	891-8992/106-201	.../106-202	891-8992/116-201	.../116-202
		3 m	891-8992/106-301	.../106-302	891-8992/116-301	.../116-302
		4 m	891-8992/106-401	.../106-402	891-8992/116-401	.../116-402
		5 m	891-8992/106-501	.../106-502	891-8992/116-501	.../116-502
		6 m	891-8992/106-601	.../106-602	891-8992/116-601	.../116-602
		7 m	891-8992/106-701	.../106-702	891-8992/116-701	.../116-702
		8 m	891-8992/106-801	.../106-802	891-8992/116-801	.../116-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	891-8992/206-101	.../206-102	891-8992/216-101	.../216-102
		2 m	891-8992/206-201	.../206-202	891-8992/216-201	.../216-202
		3 m	891-8992/206-301	.../206-302	891-8992/216-301	.../216-302
		4 m	891-8992/206-401	.../206-402	891-8992/216-401	.../216-402
		5 m	891-8992/206-501	.../206-502	891-8992/216-501	.../216-502
		6 m	891-8992/206-601	.../206-602	891-8992/216-601	.../216-602
		7 m	891-8992/206-701	.../206-702	891-8992/216-701	.../216-702
		8 m	891-8992/206-801	.../206-802	891-8992/216-801	.../216-802
Lengths		Pack.-unit		Accessories		
1 m		50		Locking levers, tool operated,		
2, 3, 4 m		25		for "flying leads"		
5, 6 m		15		 black 890-111 100 (2 x 50)		
7, 8 m		10		white 890-131 100 (2 x 50)		
Other lengths on request						

Sockets and Plugs, 3 Poles

<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 16 A</p> <p>AWG 22 - 16</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 16 A</p> <p>AWG 22 - 16</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Connectors, 3 poles, with CAGE CLAMP®S connection	Sockets with strain relief housing, for cable diameter 4.5 - 10 mm (0.17 - 0.39 in)			Plugs with strain relief housing, for cable diameter 4.5 - 10 mm (0.17 - 0.39 in)		
	black	890-103	● 50	black	890-113	● 50
	white	890-123	○ 50	white	890-133	○ 50

Accessories						
Locking levers, tool operated, for "flying leads" 	black	890-111	100 (2 x 50)	black	890-111	100 (2 x 50)
	white	890-131	100 (2 x 50)	white	890-131	100 (2 x 50)
Shield connecting plate, for plugs and sockets, see page 19 		890-523	50		890-523	50
Operating tool, insulated, 3-way 		890-393	1		890-393	1

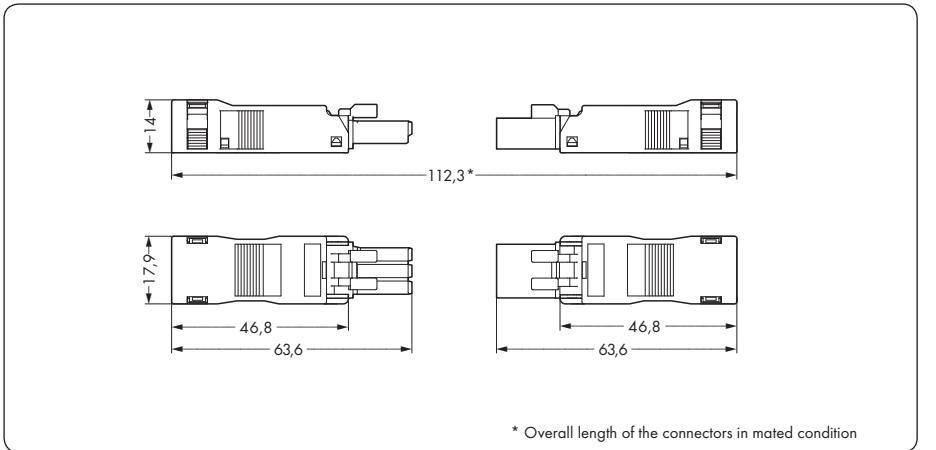
Info	Dimensions (in mm)
------	--------------------

① Wire range: 0.25 - 1.5 mm² "s + f-st"
0.25 - 1 mm² "stranded"



② Approval data can be found in the online catalog at www.wagocatalog.com

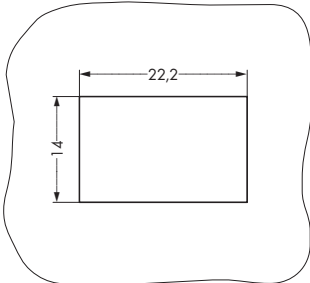
● black Coding A (L ⊕ N)
○ white Coding A (L ⊕ N)
● gray Coding B (1 2 3)

Please find some information on the different codings on pages 146 and 147







Snap-In Sockets and Plugs, 3 Poles

Cut-out dimensions Sheet thickness: 0.5 mm to 2 mm (0.02 - 0.078 in) Tolerance of the cut-out: + 0.1 mm / 0.0039 in	0.25 – 1.5 mm ² ① 250 V/4 kV/3 16 A	AWG 22 - 16	0.25 – 1.5 mm ² ① 250 V/4 kV/3 16 A	AWG 22 - 16
	 9 mm / 0.35 in ② Approvals			 9 mm / 0.35 in ② Approvals



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 3 poles, with CAGE CLAMP®S connection	Sockets			Plugs		
	black	890-703	● 50	black	890-713	● 50
	white	890-723	○ 50	white	890-733	○ 50
	gray	890-743	● 50	gray	890-753	● 50

Accessories						
Lockout caps, for cut-out						
	black	890-643	100	black	890-643	100
	white	890-693	100	white	890-693	100
Mounting plate, for distribution connectors						
						
Fixing pin, for mounting plates						
						
Operating tool, insulated, 3-way						
		890-393	1		890-393	1

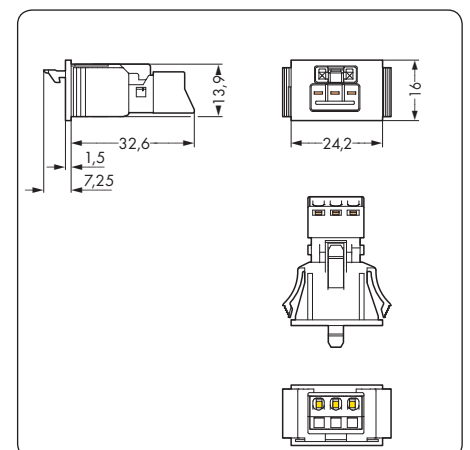
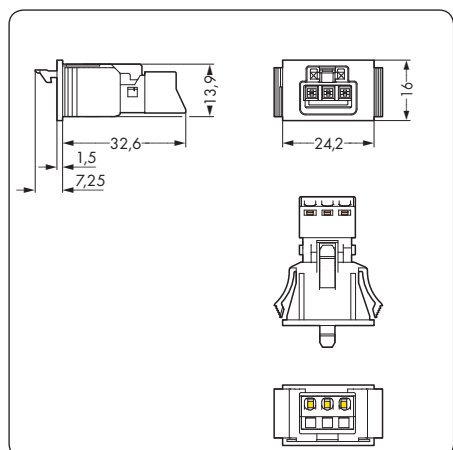
Info	Dimensions (in mm)
------	--------------------

① Wire range: 0.25 - 1.5 mm² "s + f-st"
0.25 - 1 mm² "stranded"

② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (L ⊕ N)
○ white Coding A (L ⊕ N)
● gray Coding B (1 2 3)

Please find some information on the different codings on pages 146 and 147



Distribution Connectors, 3 Poles

250 V/4 kV/3 16 A	250 V/4 kV/3 16 A
Ⓢ Approvals	Ⓢ Approvals



Connector with shield termination

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
h-distribution connectors, unidirectional, plug / socket - socket			T-distribution connectors, 1 x plug / 2 x socket		
black	890-634 ●	50	black	890-606 ●	25
white	890-684 ○	50	white	890-656 ○	25
for "flying leads", with 3rd locking lever			for "flying leads", with 3rd locking lever		
black	890-636 ●	50	black	890-615 ●	25
white	890-686 ○	50	white	890-665 ○	25
black	890-623	100			
white	890-673	100			
black	890-601	250			



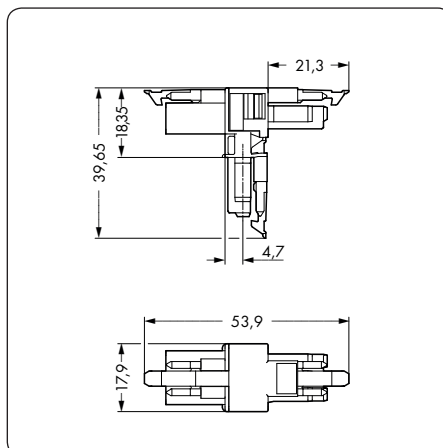
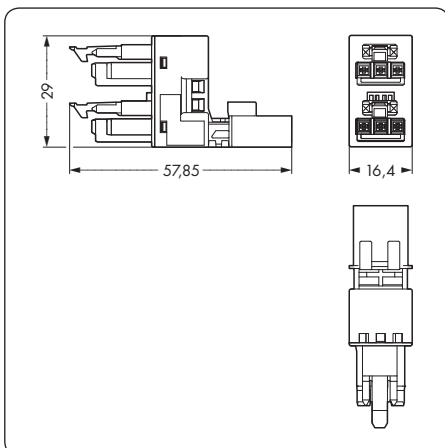
Apply the shield to the rubber cable.
Strip length, outer insulation = 30 mm / 1.18 in
Shield length = 8 mm / 0.31 in


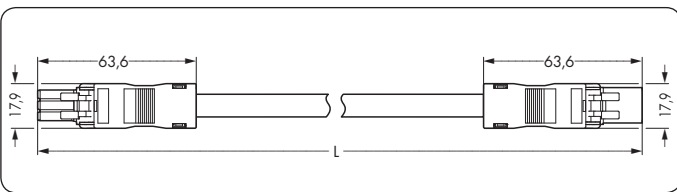

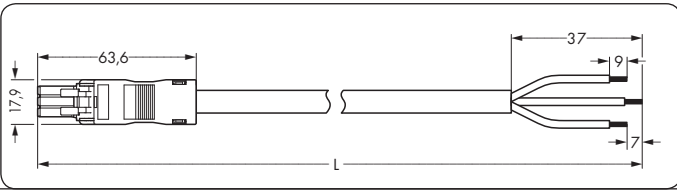

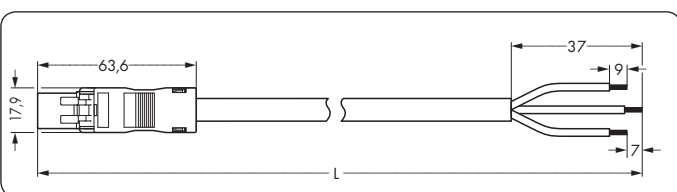



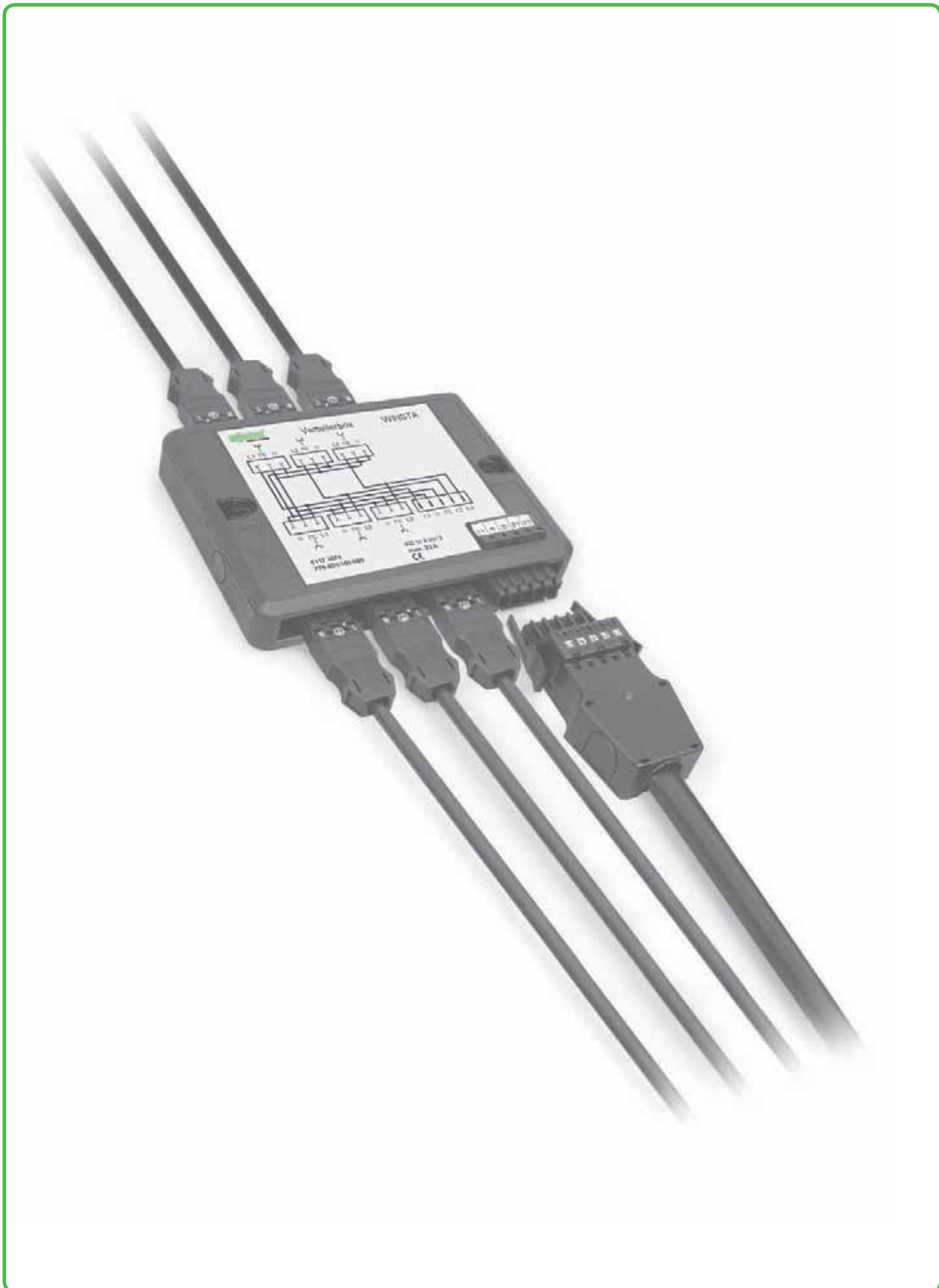
Push the shield connecting plate into the connector until fully inserted



First insert the wired connector into the strain relief housing, then snap the clamp and cover.



		PVC H05VV-F 3G1 halogen-free H05Z1Z1-F 3G1 250 V/4 kV/3 10 A Wire ends bonded 9 mm ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC		halogen-free		
		1 m	891-8993/005-101	.../005-102	891-8993/015-101	.../015-102
		2 m	891-8993/005-201	.../005-202	891-8993/015-201	.../015-202
		3 m	891-8993/005-301	.../005-302	891-8993/015-301	.../015-302
		4 m	891-8993/005-401	.../005-402	891-8993/015-401	.../015-402
		5 m	891-8993/005-501	.../005-502	891-8993/015-501	.../015-502
		6 m	891-8993/005-601	.../005-602	891-8993/015-601	.../015-602
		7 m	891-8993/005-701	.../005-702	891-8993/015-701	.../015-702
		8 m	891-8993/005-801	.../005-802	891-8993/015-801	.../015-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC		halogen-free		
		1 m	891-8993/105-101	.../105-102	891-8993/115-101	.../115-102
		2 m	891-8993/105-201	.../105-202	891-8993/115-201	.../115-202
		3 m	891-8993/105-301	.../105-302	891-8993/115-301	.../115-302
		4 m	891-8993/105-401	.../105-402	891-8993/115-401	.../115-402
		5 m	891-8993/105-501	.../105-502	891-8993/115-501	.../115-502
		6 m	891-8993/105-601	.../105-602	891-8993/115-601	.../115-602
		7 m	891-8993/105-701	.../105-702	891-8993/115-701	.../115-702
		8 m	891-8993/105-801	.../105-802	891-8993/115-801	.../115-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC		halogen-free		
		1 m	891-8993/205-101	.../205-102	891-8993/215-101	.../215-102
		2 m	891-8993/205-201	.../205-202	891-8993/215-201	.../215-202
		3 m	891-8993/205-301	.../205-302	891-8993/215-301	.../215-302
		4 m	891-8993/205-401	.../205-402	891-8993/215-401	.../215-402
		5 m	891-8993/205-501	.../205-502	891-8993/215-501	.../215-502
		6 m	891-8993/205-601	.../205-602	891-8993/215-601	.../215-602
		7 m	891-8993/205-701	.../205-702	891-8993/215-701	.../215-702
		8 m	891-8993/205-801	.../205-802	891-8993/215-801	.../215-802
Info		Locking levers, tool operated, for "flying leads"				
① Approval data can be found in the online catalog at www.wagocatalog.com Other cables on request		 black		890-111	100 (2 x 50)	
		white		890-131	100 (2 x 50)	
● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N) Please find some information on the different codings on pages 146 and 147		Lengths		Pack.-unit		
		1 m		50		
		2, 3, 4 m		25		
		5, 6 m		15		
		7, 8 m		10		
		Other lengths on request				



WINSTA® - The perfect connection!

2

**770 Series**

Connectors, 3 Poles
 Connectors, 3 Poles, Special Items
 Connectors, 4 Poles
 Connectors, 5 Poles

24 – 25
 30 – 31
 44 – 45
 56 – 59

**770 Series**

Strain Relief Housings, 3 Poles
 Strain Relief Housings, 4 Poles
 Strain Relief Housings, 5 Poles
 Strain Relief Housings, 6 Poles
 Strain Relief Housings, 7 Poles

26 – 27
 46
 60 – 61
 80
 81

**770 Series**

Snap-In Device Connectors, 3 Poles
 Snap-In Device Connectors, 4 Poles
 Snap-In Device Connectors, 5 Poles

28 – 29
 48 – 49
 62 – 63

**770 Series**

PCB Connectors, 3 Poles
 PCB Connectors, 4 Poles
 PCB Connectors, 5 Poles

32 – 33
 50 – 51
 64 – 65

**770 Series**

Intermediate Couplers and T-Distribution Connectors, 3 Poles
 Distribution Connectors, 4 Poles
 Intermediate Couplers and T-Distribution Connectors, 5 Poles
 Distribution Box

34 – 37
 52
 66 – 70
 78 – 79

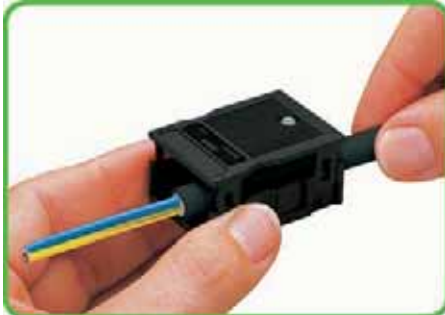
**771 Series**

Cable Assemblies, 3 Poles
 Cable Assemblies, 4 Poles
 Cable Assemblies, 5 Poles

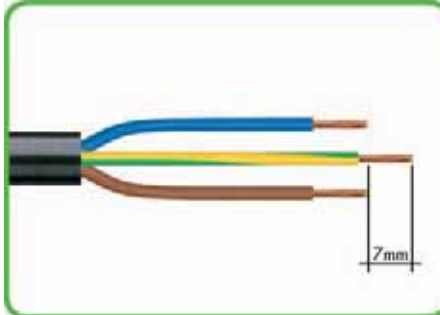
38 – 43
 54
 72 – 77

Handling WINSTA® MIDI 770 Series

Preparation



We recommend to pull the pre-latched strain relief housing over the conductor prior to conductor connection. However, the strain relief can be mounted at a later time as well.



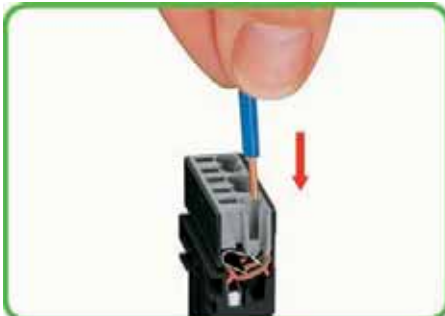
1. Strip length, outer insulation = 55 mm / 2.16 in
2. Strip length = 9 mm / 0.35 in
3. PE conductor protruding = 7 mm / 0.27 in

Wire connection with CAGE CLAMP® S



Open clamping point with screwdriver (blade width 2.5mm/0.098 in) and insert stripped conductor up to the stop.

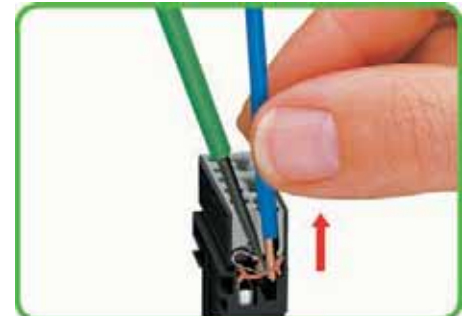
Conductor connection with CAGE CLAMP® S



Push solid stripped conductor up to the stop.



Actuate the clamp using a screwdriver (blade width 2.5mm/0.098 in) to connect flexible conductors and insert the stripped conductor up to the stop.



In order to disconnect the conductor, actuate the clamp using a screwdriver (blade width 2.5 mm/0.098 in) and pull off the conductor.

Strain relief assembly



Latch the strain relief housing on the plug/socket. Note the inscription "TOP".



Prepare strain relief housing by snapping together upper and bottom part.



Tighten the strain relief screw using a screwdriver

Variable coding



Simply break or cut off the coding pin on the socket.





Fit the coding pin into the connector (break first) so that the pin engages.

Marking







Marking of strain relief housing with WSB quick marking system.

<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 - 12</p> <p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>
--	---



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, 3 poles, with CAGE CLAMP®S connection	Sockets with strain relief housing, for 2 cables, diameter 8 - 11.5 mm / 0.31 - 0.45 in ③			Plugs with strain relief housing, for 2 cables, diameter 8 - 11.5 mm / 0.31 - 0.45 in ③		
	black	770-103	● 25	black	770-113	● 25
	white	770-123	○ 25	white	770-133	○ 25

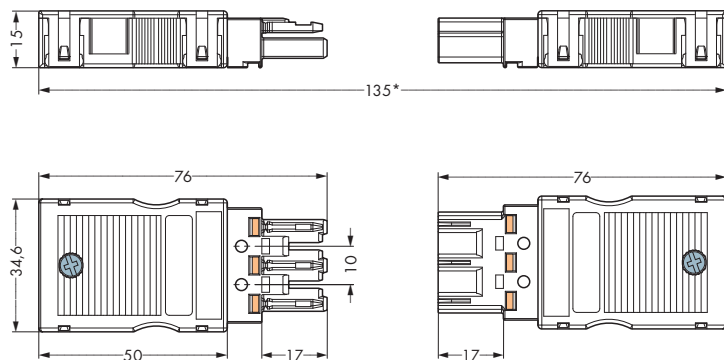
Accessories

 Locking levers, manually operated, for "flying leads"	black	770-101	● 100 (4 x 25)	black	770-101	● 100 (4 x 25)
	white	770-121	○ 100 (4 x 25)	white	770-121	○ 100 (4 x 25)
 Locking levers, tool operated, for "flying leads"	black	770-111	● 100 (4 x 25)	black	770-111	● 100 (4 x 25)
	white	770-131	○ 100 (4 x 25)	white	770-131	○ 100 (4 x 25)
 Lockout caps, for socket, separable, 12 poles	black	770-201	100			
	white	770-221	100			
 Coding pin, for plug				gray	770-401	100



Info	Dimensions (in mm)
------	--------------------

- ① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"
 - ② Approval data can be found in the online catalog at www.wagocatalog.com
 - ③ More strain relief housings see pages 26 and 27
- | | | |
|----------|----------|-------------|
| ● black | Coding A | (L ⊕ N) |
| ○ white | Coding A | (L ⊕ N) |
| ● gray | Coding B | (1 2 3) |
| ● red | Coding P | (L ⊕ N) |
| ● orange | Coding R | (LON LON S) |
| ● brown | Coding S | (1 2 L) |

Please find some information on the different codings on pages 146 and 147



* Overall length of the connectors in mated condition

2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12
--	-----------------	--	-----------------



NOTE:

All products for fixed installations (snap-in versions, distribution connectors) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for "flying leads" (plug/socket).

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets without strain relief housing			Plugs without strain relief housing		
black	770-203	● 100	black	770-213	● 100
white	770-223	○ 100	white	770-233	○ 100
gray	770-243	● 100	gray	770-253	● 100
red	770-1303	● 100	red	770-1313	● 100
orange	770-1343	● 100	orange	770-1353	● 100
brown	770-1363	● 100	brown	770-1373	● 100
black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)
white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)
black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)
white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)
black	770-201	100			
white	770-221	100			
			gray	770-401	100



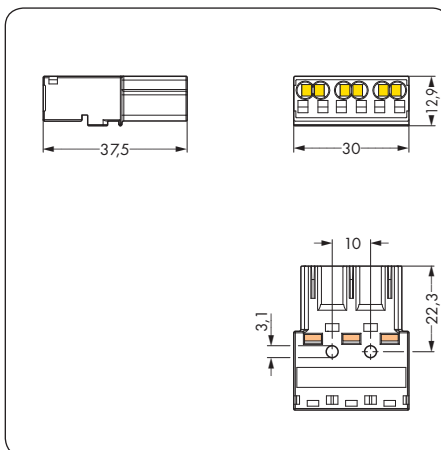
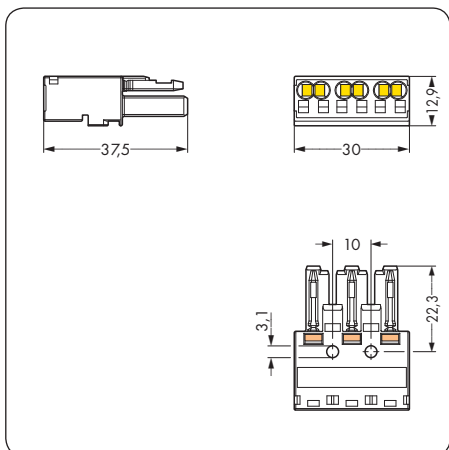
Snap on locking lever. Observe direction!



Locking lever, manually operated:
1.) Press on locking lever.
2.) Pull apart the connectors.



Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.





Strain Relief Housings, 3 Poles, for Different Cable Diameters

	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 3-pole sockets - 3-pole plugs <p>① Approvals</p>	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 3-pole sockets - 3-pole plugs <p>① Approvals</p>
--	---	---



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Strain relief housings, 3 poles		Strain relief housings, for 2 cables, diameter 4.5 - 8 mm / 0.17 - 0.31 in ②			Strain relief housings, for 2 cables, diameter 8 - 11.5 mm / 0.31 - 0.45 in ②	
	black	770-503/023-000	50	black	770-503	50
	white	770-513/023-000	50	white	770-513	50

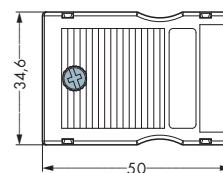
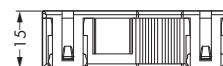
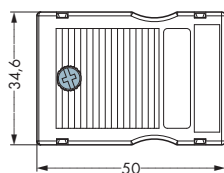
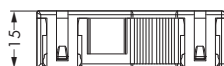
Accessories

<p>Marker strips,</p> <p>self-adhesive, on DIN A 1 card, strip length 182 mm / 7.16 in</p> 	<p>Height 6 mm / 0.23 in</p> <p>Size of the marker field 28 x 6.5 mm / 1.1 x 0.25 in</p>	<p>210-333</p> <p>100</p>	<p>Height 6 mm / 0.23 in</p> <p>Size of the marker field 28 x 6.5 mm / 1.1 x 0.25 in</p>	<p>210-333</p> <p>100</p>
<p>Shield connecting plate,</p> <p>for plugs and sockets, for 2 cables, diameter 4 - 7.5 mm / 0.157 - 0.29 in</p> 		<p>770-523</p> <p>25</p>		

Info

Dimensions (in mm)

- ① Approval data can be found in the online catalog at www.wagocatalog.com
- ② For H05VV and NYM cables
Other cables on request

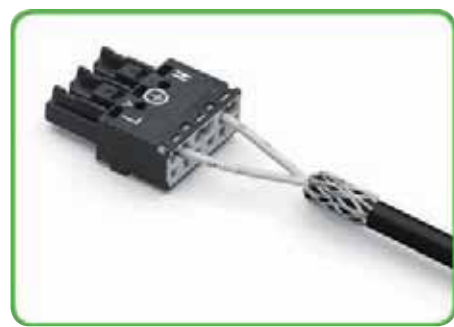


Snap-on type strain relief housing for - 3-pole sockets - 3-pole plugs 1 Approvals	Snap-on type strain relief housing for - 3-pole sockets - 3-pole plugs 1 Approvals
---	---



Connector with shield termination

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Strain relief housings, angled for 2 cables, diameter 8 - 11.5 mm / 0.31 - 0.45 in 2			Strain relief housings, for 4 mm²/AWG 12 cables, for 1 cable, diameter 9 - 13 mm / 0.35 - 0.51 in 2		
black	770-503/032-000	25	black	770-503/021-000	50
white	770-513/032-000	25	white	770-513/021-000	50
Height 6 mm / 0.23 in 210-333 100 Size of the marker field 28 x 6.5 mm / 1.1 x 0.25 in			Height 6 mm / 0.23 in 210-333 100 Size of the marker field 28 x 6.5 mm / 1.1 x 0.25 in		



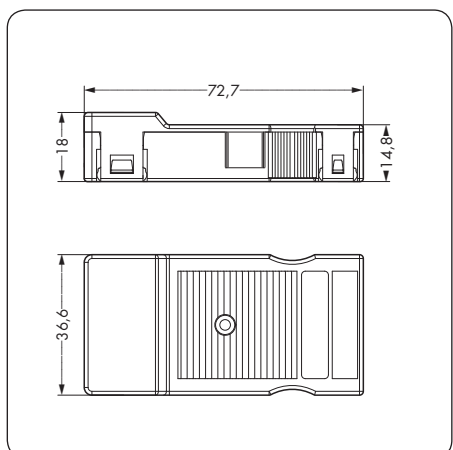
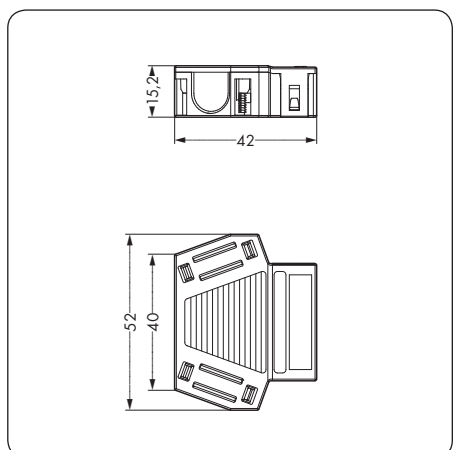
Apply the shield to the rubber cable.
 Strip length, outer insulation = 55 mm / 2.16 in
 Shield length = 10 mm / 0.39 in





Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into the strain relief housing, then snap the cover and tighten the screw.






Snap-In Sockets and Plugs, 3 Poles

<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 - 12</p> <p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>
--	---



Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Connectors, snap-in device connection, 3 poles, with CAGE CLAMP®S connection	Sockets			Sockets with protruding coding system		
	black	770-703	● 100	black	770-703/009-000	● 100
	white	770-723	○ 100	white	770-723/009-000	○ 100
	gray	770-743	● 100			
	red	770-2303	● 100			
	orange	770-2343	● 100			
	brown	770-2363	● 100			

Accessories						
Lockout caps, for cut-out						
	black	770-643	100	black	770-643	100
	white	770-693	100	white	770-693	100
Lockout caps, for socket, separable, 12 poles						
	black	770-201	100	black	770-201	100
	white	770-221	100	white	770-221	100
Coding pin, for plug						
						

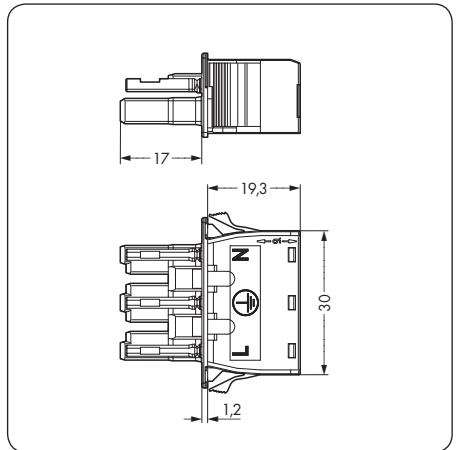
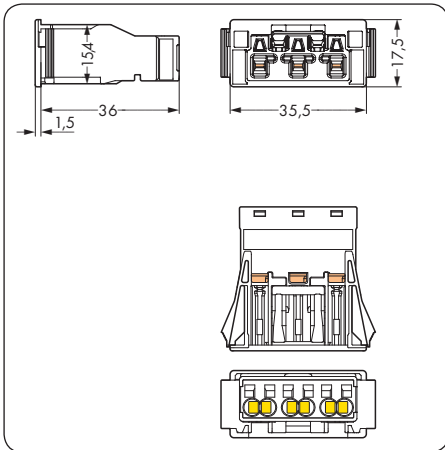
Info	Dimensions (in mm)
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




① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"

② Approval data can be found in the online catalog at www.wagocatalog.com









● black	Coding A	(L ⊕ N)
○ white	Coding A	(L ⊕ N)
● gray	Coding B	(1 2 3)
● red	Coding P	(L ⊕ N)
● orange	Coding R	(LON LON S)
● brown	Coding S	(1 2 L)

Please find some information on the different codings on pages 146 and 147



2 x 0.5 – 4 mm ²  250 V/4 kV/3 25 A  9 mm / 0.35 in  Approvals	2 x AWG 20 - 12 	2 x 0.5 – 4 mm ²  250 V/4 kV/3 25 A  9 mm / 0.35 in  Approvals	2 x AWG 20 - 12
--	-----------------------------	--	-----------------------------



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Plugs			Plugs with direct contacting of the ground conductor		
black	770-713 	100	black	770-713/007-000 	100
white	770-733 	100	white	770-733/007-000 	100
gray	770-753 	100	red	770-2313/007-000 	100
red	770-2313 	100			
orange	770-2353 	100			
black	770-643	100	black	770-643	100
white	770-693	100	white	770-693	100
gray	770-401	100	gray	770-401	100

Direct contacting of the ground conductor



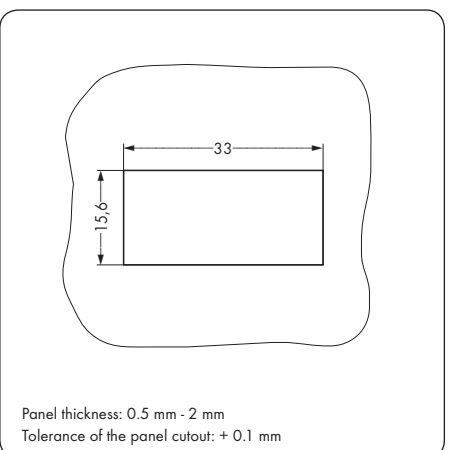
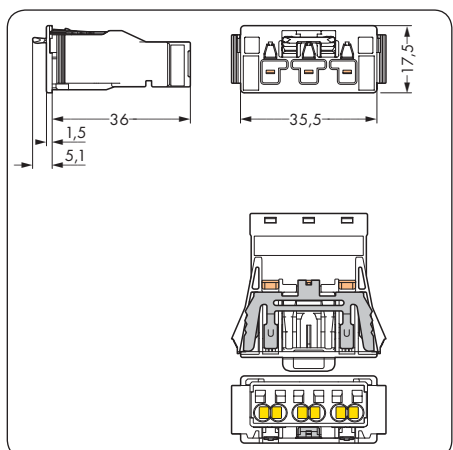
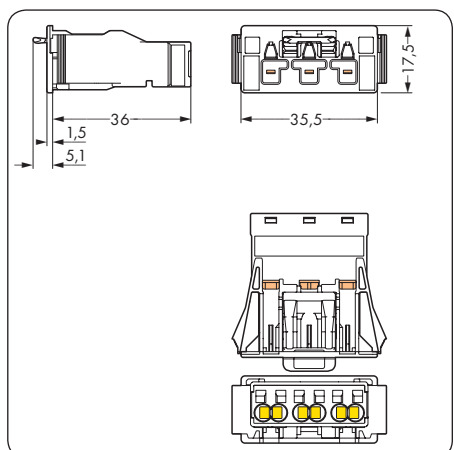
Varnish-piercing direct contacting of the ground conductor. (Example shows 4-pole connector)

Lockout cap



Seal unused cutout with lockout cap.

Dimensions (in mm) cutout



Shorting Plugs, 3 Poles Plugs with Ground Contact, 3 to 5 Poles

250 V/4 kV/3
20 A

NOTE:

Before finally connecting the switches, the shorting plugs may be used to switch on or off.





2 x 0.5 – 4 mm²
250 V/4 kV/3
25 A

2 x AWG 20 - 12

9 mm / 0.35 in

Approvals



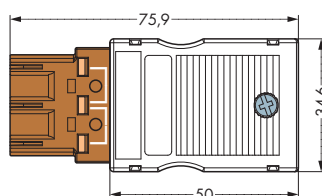
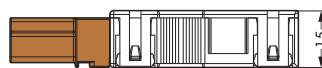
Description	Marking	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	
Shorting plugs, device connectors		Shorting plugs, brown plugs with assembled strain relief housing		Plugs, with ground contact, 3- / 4- / 5-pole, without strain relief housing; e.g., for assembly on luminaire casings			
				black	770-213/002-000 ●	25	
				white	770-233/002-000 ○	25	
				Delivery time and other colors on request.			
Accessories							
 Locking levers, manually operated, for "flying leads"	black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)	
	white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)	
 Locking levers, tool operated, for "flying leads"	black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)	
	white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)	
 Lockout caps, for socket, separable, 12 poles							
Info							
Dimensions (in mm)		Use					

① Approval data can be found in the online catalog at www.wagocatalog.com

② Internal connection via 0.8 mm / 0.031 in thick current bars is possible. Other thicknesses on request

● black Coding A (L ⊕ N)
○ white Coding A (L ⊕ N)
● brown Coding S

Please find some information on the different codings on pages 146 and 147



Plug with ground contact mounted on luminaire (example shows 5-pole plug).

Device Connectors, 3 Poles

250 V/4 kV/3 25 A 1 Approvals	250 V/4 kV/3 25 A 1 Approvals
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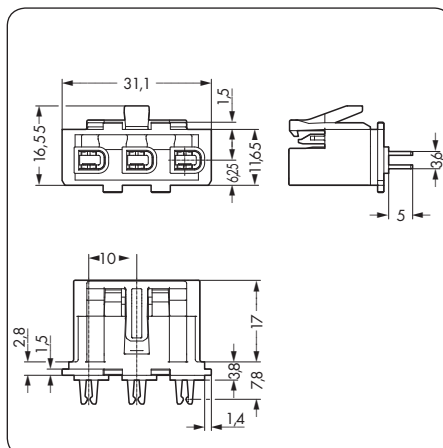
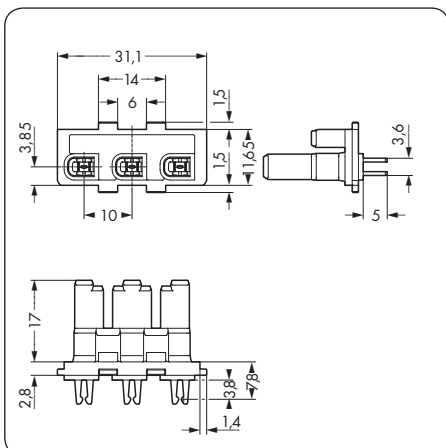


Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Socket modules ②			Plug modules with locking lever ②		
black	770-408	● 100	black	770-418	● 100
white	770-428	○ 100	white	770-438	○ 100
black	770-101	100 (4 x 25)			
white	770-121	100 (4 x 25)			
black	770-111	100 (4 x 25)			
white	770-131	100 (4 x 25)			
black	770-201	100			
white	770-221	100			



Device connectors are designed for the cost-effective mounting in corresponding guide slots in an enclosure. The internal electrical connection is performed by contacting the 0.8 mm/0.031 in thick current bars. ②



Dimensions (in mm)



	<p>250 V/4 kV/3 25 A ①</p> <p>② Approvals</p>	<p>250 V/4 kV/3 25 A ①</p> <p>② Approvals</p>
--	---	---



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
PCB connectors, 2 solder pins per pole	Sockets, straight type			Plugs, straight type		
	black	770-803 ●	100	black	770-813 ●	100
	white	770-823 ○	100	white	770-833 ○	100
	gray	770-843 ●	100	gray	770-853 ●	100

Accessories						
Lockout caps, for socket,  separable, 12 poles	black	770-201	100			
	white	770-221	100			
Coding pin, for plug 				gray	770-401	100

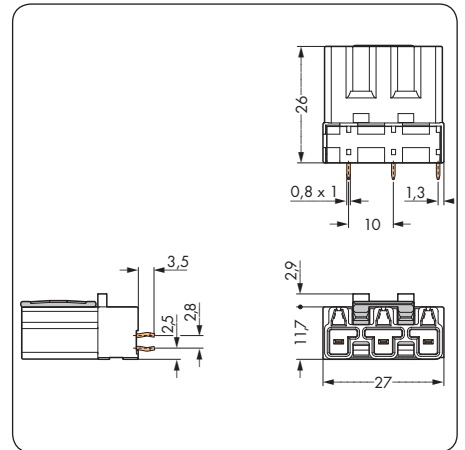
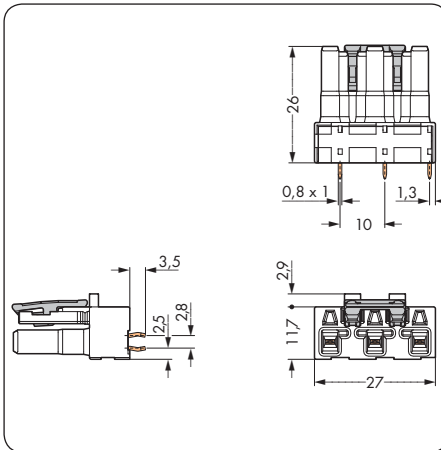
Info	Dimensions (in mm)
------	--------------------

① Current load see table on page 33

② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (L ⊕ N)
○ white Coding A (L ⊕ N)
● gray Coding B (1 2 3)

Please find some information on the different codings on pages 146 and 147



250 V/4 kV/3 25 A ① ② Approvals	250 V/4 kV/3 25 A ① ② Approvals
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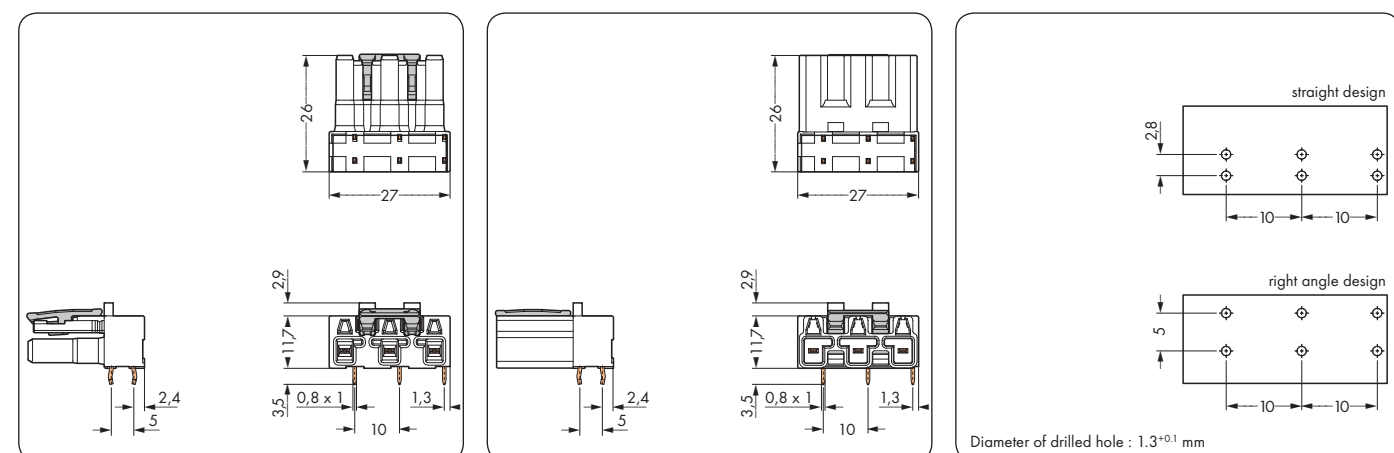


① Depends on the PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor cross section
16 A	70 μm one side	7 mm / 0.27 in	△1.5 mm ² / AWG 16
20 A	70 μm one side	7 mm	△2.5 mm ² / AWG 14
25 A	105 μm both sides	7 mm	△4 mm ² / AWG 12

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets, angled type			Plugs, angled type		
black	770-803/011-000 ●	100	black	770-813/011-000 ●	100
white	770-823/011-000 ○	100	white	770-833/011-000 ○	100
gray	770-843/011-000 ●	100	gray	770-853/011-000 ●	100
black	770-201	100			
white	770-221	100			
			gray	770-401	100

Hole patterns





WINSTA® - The perfect connection!

Intermediate Couplers and T-Distribution Connectors, 3 Poles

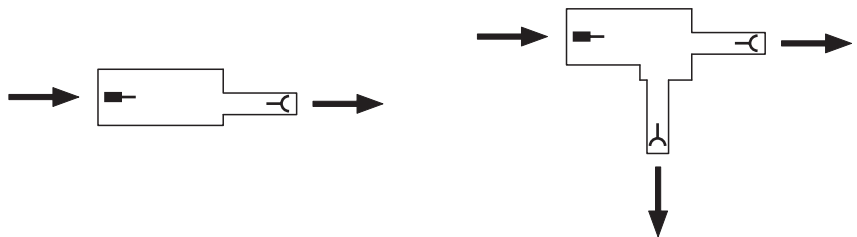
	<p>250 V/4 kV/3 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 25 A</p> <p>① Approvals</p>
--	---	---



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Intermediate couplers, distribution connectors	Intermediate couplers, 1 x plug / 1 x socket			T-distribution connectors, 1 x plug / 2 x socket		
				black	770-606	● 50
				white	770-656	○ 50
	black	770-603	● 100	gray	770-967	● 50
	white	770-653	○ 100	orange	770-667	● 50
				for "flying leads", with 3rd locking lever		
			black	770-615	● 50	
			white	770-665	○ 50	
			gray	770-970	● 50	
			orange	770-670	● 50	

Accessories						
<p>Mounting plates, for snapping on distribution connectors, handling see page 35</p>  <p>Fixing pin, for mounting plates, 6.1 x 2.5-4 mm / 0.24 x 0.098-0.157 in</p>						
<p>Lockout caps, for socket, separable, 12 poles</p> 				black	770-201	100
				white	770-221	100

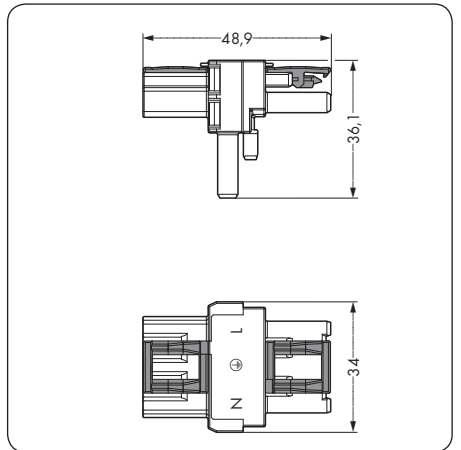
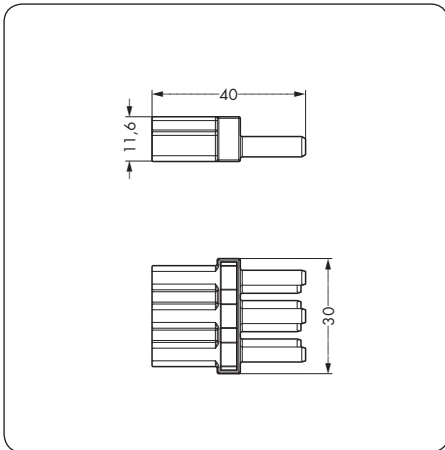
Info	Dimensions (in mm)
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① Approval data can be found in the online catalog at www.wagocatalog.com

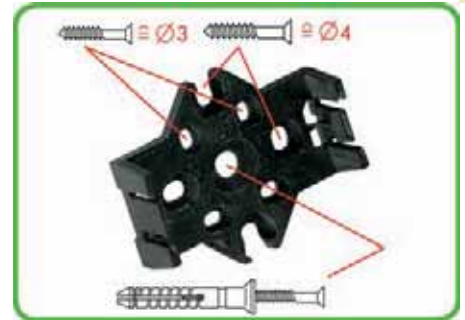
- black Coding A (L ⊕ N)
- white Coding A (L ⊕ N)
- gray Coding B (1 2 3)
- red Coding P (L ⊕ N)
- orange Coding R (LON LON S)

Please find some information on the different codings on pages 146 and 147



h-Distribution Connectors, 3 Poles

250 V/4 kV/3 25 A	250 V/4 kV/3 25 A
① Approvals	① Approvals



The mounting plates for distribution connectors can be mounted using commercially available screws or nail-drive anchors.

2

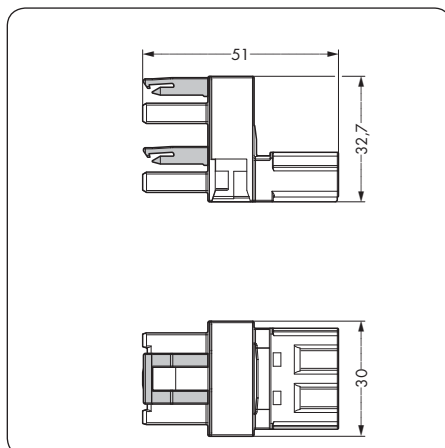
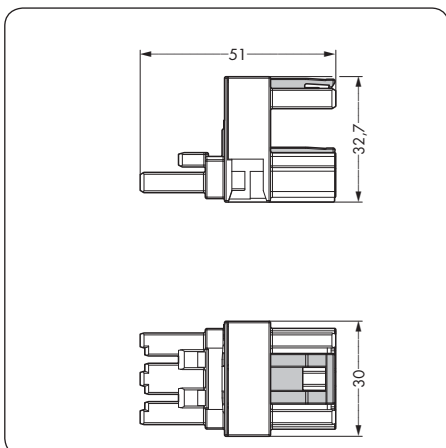
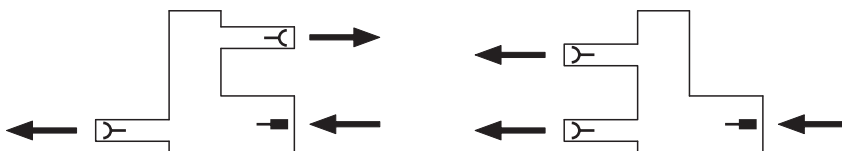
Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
h-distribution connectors, bi-directional, plug - socket / socket			h-distribution connectors, unidirectional, plug / socket - socket		
black	770-633 ●	50	black	770-634 ●	50
white	770-683 ○	50	white	770-684 ○	50
for "flying leads", with 3rd locking lever			for "flying leads", with 3rd locking lever		
black	770-635 ●	50	black	770-636 ●	50
white	770-685 ○	50	white	770-686 ○	50
black	770-623	25	black	770-623	25
white	770-673	25	white	770-673	25
black	770-601	250	black	770-601	250
black	770-201	100	black	770-201	100
white	770-221	100	white	770-221	100



The distribution connectors are latched when mounted on the mounting plate.



All distribution connector connections are locked and protected against accidental disconnection directly after mating. Locking of any connection is released using a screwdriver, even if all connections are used.





To release the distribution connector, unlock the latch using a screwdriver.

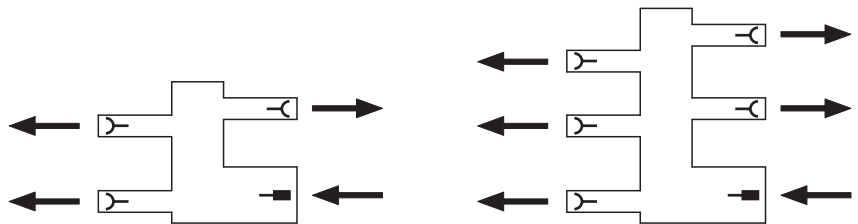
	<p>250 V/4 kV/3 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 25 A</p> <p>① Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Distribution connectors, pluggable	Distribution connectors, 3-way, 1 x plug / 3 x socket			Distribution connectors, 5-way, 1 x plug / 5 x socket		
	black	770-607	● 25	black	770-608	● 25
	white	770-657	○ 25	white	770-658	○ 25
	red	770-907	● 25			

Accessories						
 Mounting plates , for snapping on distribution connectors, handling see page 35 Fixing pin , for mounting plates, 6.1 x 2.5-4 mm / 0.24 x 0.098-0.157 in	black	770-623	25	black	770-623	25
	white	770-673	25	white	770-673	25
 Lockout caps , for socket, separable, 12 poles	black	770-201	100	black	770-201	100
	white	770-221	100	white	770-221	100

Info	Dimensions (in mm)
------	--------------------

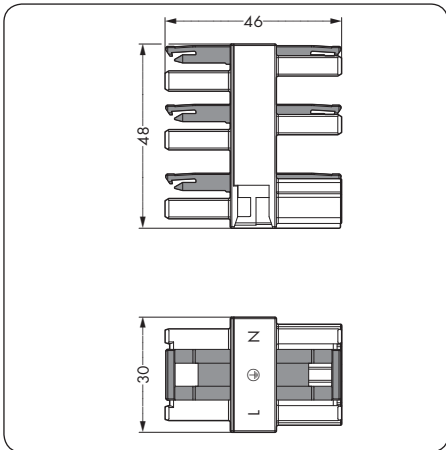
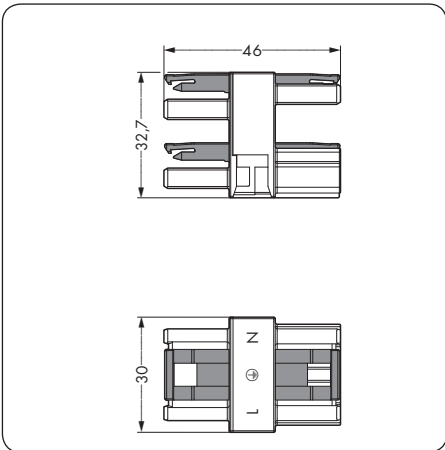


① Approval data can be found in the online catalog at www.wagocatalog.com

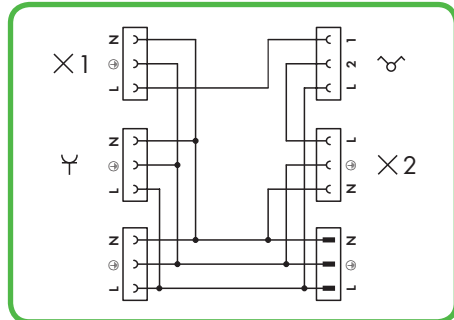
② LL = Locking lever

● black Coding A (L ⊕ N)
 ○ white Coding A (L ⊕ N)
 ● red Coding P (L ⊕ N)

Please find some information on the different codings on pages 146 and 147

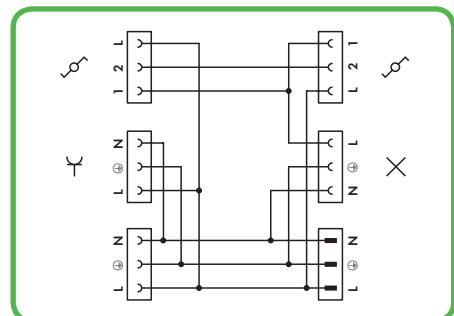


250 V/4 kV/3 25 A	250 V/4 kV/3 25 A
① Approvals	① Approvals

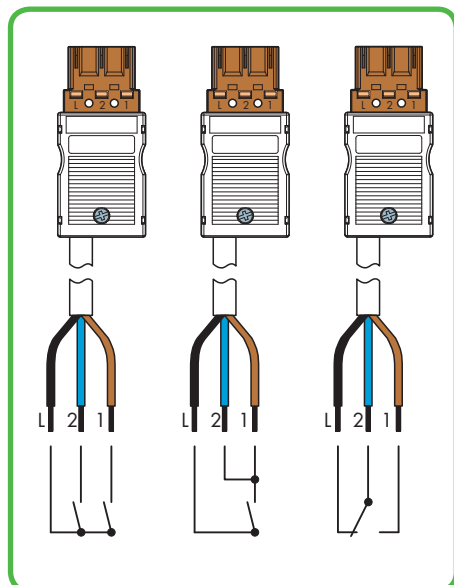


Internal circuit of the 770-637 distribution connector for single-pole switch or series circuits.

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Distribution connectors for single-pole switch or series circuits			Distribution connectors for single-pole switch or two-way circuits		
	1 x plug Coding A, LL ② black/white			1 x plug Coding A, LL ② black/white	
	2 x socket Coding A, LL ② black/white			2 x socket Coding A, LL ② black/white	
	2 x socket Coding A (lighting fixtures), LL ② white/black			1 x socket Coding A (lighting fixtures), LL ② white/black	
	1 x socket Coding S (switches), LL ② brown			2 x socket Coding S (switches), LL ② brown	
black	770-637 ●	10	black	770-638 ●	10
white	770-687 ○	10	white	770-688 ○	10
black	770-623	25	black	770-623	25
white	770-673	25	white	770-673	25
black	770-601	250	black	770-601	250
black	770-201	100	black	770-201	100
white	770-221	100	white	770-221	100



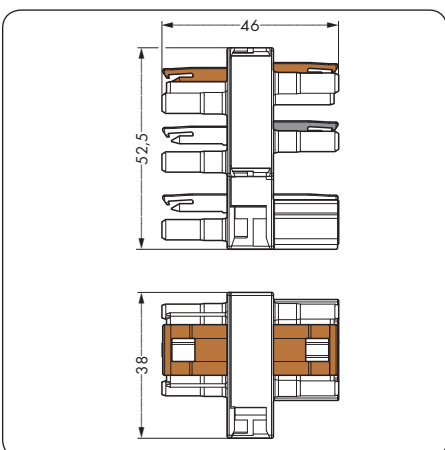
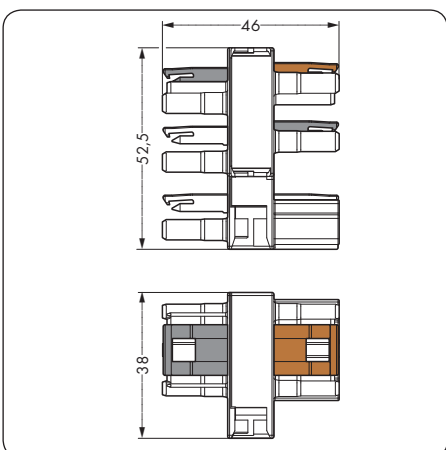
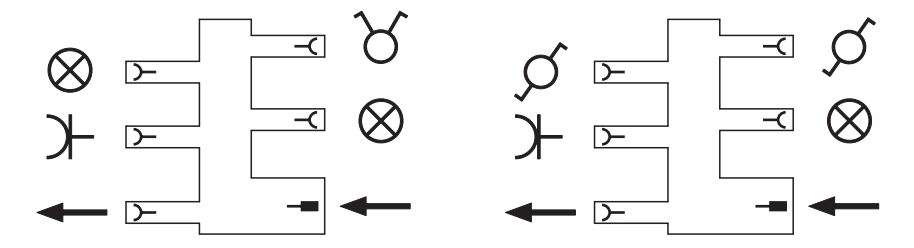
Internal circuit of the 770-638 distribution connector for single-pole switch or two-way circuits.



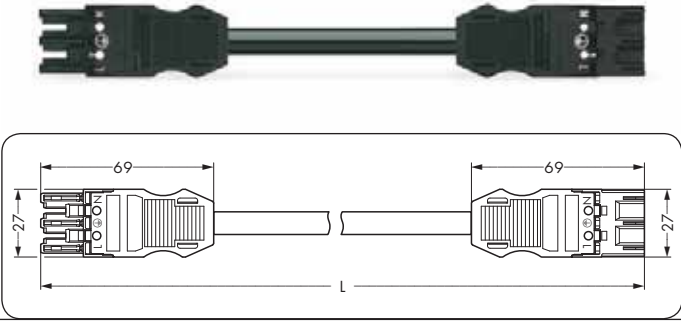
Cable assembly with coding S for connection to 770-637 and 770-638 distribution connectors see page 40.

Left: series circuit
Center: single-pole switch
Right: two-way circuit

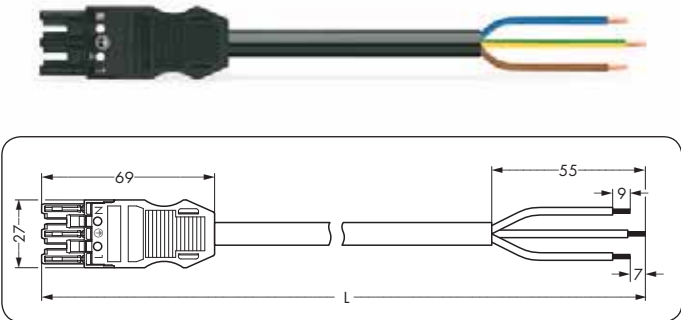
Shorting plug see page 30



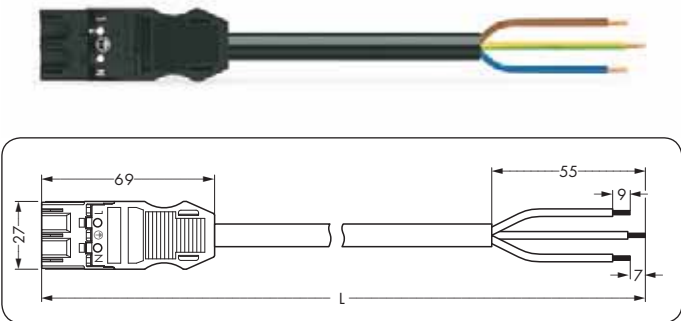
	<p>PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5</p> <p>250 V/4 kV/3 16 A</p> <p>Wire ends bonded 9 mm/0.35 in</p> <p>① Approvals</p>																																																							
Interconnecting cables, socket - plug	<table border="1"> <thead> <tr> <th>Length</th> <th>Item no. black</th> <th>Item no. white</th> <th>Item no. black</th> <th>Item no. white</th> </tr> </thead> <tbody> <tr> <td colspan="5">Coding A ● ○</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-9993/006-101</td> <td>.../006-102</td> <td>771-9993/016-101</td> <td>.../016-102</td> </tr> <tr> <td>2 m</td> <td>771-9993/006-201</td> <td>.../006-202</td> <td>771-9993/016-201</td> <td>.../016-202</td> </tr> <tr> <td>3 m</td> <td>771-9993/006-301</td> <td>.../006-302</td> <td>771-9993/016-301</td> <td>.../016-302</td> </tr> <tr> <td>4 m</td> <td>771-9993/006-401</td> <td>.../006-402</td> <td>771-9993/016-401</td> <td>.../016-402</td> </tr> <tr> <td>5 m</td> <td>771-9993/006-501</td> <td>.../006-502</td> <td>771-9993/016-501</td> <td>.../016-502</td> </tr> <tr> <td>6 m</td> <td>771-9993/006-601</td> <td>.../006-602</td> <td>771-9993/016-601</td> <td>.../016-602</td> </tr> <tr> <td>7 m</td> <td>771-9993/006-701</td> <td>.../006-702</td> <td>771-9993/016-701</td> <td>.../016-702</td> </tr> <tr> <td>8 m</td> <td>771-9993/006-801</td> <td>.../006-802</td> <td>771-9993/016-801</td> <td>.../016-802</td> </tr> </tbody> </table>	Length	Item no. black	Item no. white	Item no. black	Item no. white	Coding A ● ○					PVC		halogen-free			1 m	771-9993/006-101	.../006-102	771-9993/016-101	.../016-102	2 m	771-9993/006-201	.../006-202	771-9993/016-201	.../016-202	3 m	771-9993/006-301	.../006-302	771-9993/016-301	.../016-302	4 m	771-9993/006-401	.../006-402	771-9993/016-401	.../016-402	5 m	771-9993/006-501	.../006-502	771-9993/016-501	.../016-502	6 m	771-9993/006-601	.../006-602	771-9993/016-601	.../016-602	7 m	771-9993/006-701	.../006-702	771-9993/016-701	.../016-702	8 m	771-9993/006-801	.../006-802	771-9993/016-801	.../016-802
Length	Item no. black	Item no. white	Item no. black	Item no. white																																																				
Coding A ● ○																																																								
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1 m	771-9993/006-101	.../006-102	771-9993/016-101	.../016-102																																																				
2 m	771-9993/006-201	.../006-202	771-9993/016-201	.../016-202																																																				
3 m	771-9993/006-301	.../006-302	771-9993/016-301	.../016-302																																																				
4 m	771-9993/006-401	.../006-402	771-9993/016-401	.../016-402																																																				
5 m	771-9993/006-501	.../006-502	771-9993/016-501	.../016-502																																																				
6 m	771-9993/006-601	.../006-602	771-9993/016-601	.../016-602																																																				
7 m	771-9993/006-701	.../006-702	771-9993/016-701	.../016-702																																																				
8 m	771-9993/006-801	.../006-802	771-9993/016-801	.../016-802																																																				



Connecting cables, socket - free end	<table border="1"> <thead> <tr> <th>Length</th> <th>Item no. black</th> <th>Item no. white</th> <th>Item no. black</th> <th>Item no. white</th> </tr> </thead> <tbody> <tr> <td colspan="5">Coding A ● ○</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-9993/106-101</td> <td>.../106-102</td> <td>771-9993/116-101</td> <td>.../116-102</td> </tr> <tr> <td>2 m</td> <td>771-9993/106-201</td> <td>.../106-202</td> <td>771-9993/116-201</td> <td>.../116-202</td> </tr> <tr> <td>3 m</td> <td>771-9993/106-301</td> <td>.../106-302</td> <td>771-9993/116-301</td> <td>.../116-302</td> </tr> <tr> <td>4 m</td> <td>771-9993/106-401</td> <td>.../106-402</td> <td>771-9993/116-401</td> <td>.../116-402</td> </tr> <tr> <td>5 m</td> <td>771-9993/106-501</td> <td>.../106-502</td> <td>771-9993/116-501</td> <td>.../116-502</td> </tr> <tr> <td>6 m</td> <td>771-9993/106-601</td> <td>.../106-602</td> <td>771-9993/116-601</td> <td>.../116-602</td> </tr> <tr> <td>7 m</td> <td>771-9993/106-701</td> <td>.../106-702</td> <td>771-9993/116-701</td> <td>.../116-702</td> </tr> <tr> <td>8 m</td> <td>771-9993/106-801</td> <td>.../106-802</td> <td>771-9993/116-801</td> <td>.../116-802</td> </tr> </tbody> </table>	Length	Item no. black	Item no. white	Item no. black	Item no. white	Coding A ● ○					PVC		halogen-free			1 m	771-9993/106-101	.../106-102	771-9993/116-101	.../116-102	2 m	771-9993/106-201	.../106-202	771-9993/116-201	.../116-202	3 m	771-9993/106-301	.../106-302	771-9993/116-301	.../116-302	4 m	771-9993/106-401	.../106-402	771-9993/116-401	.../116-402	5 m	771-9993/106-501	.../106-502	771-9993/116-501	.../116-502	6 m	771-9993/106-601	.../106-602	771-9993/116-601	.../116-602	7 m	771-9993/106-701	.../106-702	771-9993/116-701	.../116-702	8 m	771-9993/106-801	.../106-802	771-9993/116-801	.../116-802
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Connecting cables, plug - free end	<table border="1"> <thead> <tr> <th>Length</th> <th>Item no. black</th> <th>Item no. white</th> <th>Item no. black</th> <th>Item no. white</th> </tr> </thead> <tbody> <tr> <td colspan="5">Coding A ● ○</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-9993/206-101</td> <td>.../206-102</td> <td>771-9993/216-101</td> <td>.../216-102</td> </tr> <tr> <td>2 m</td> <td>771-9993/206-201</td> <td>.../206-202</td> <td>771-9993/216-201</td> <td>.../216-202</td> </tr> <tr> <td>3 m</td> <td>771-9993/206-301</td> <td>.../206-302</td> <td>771-9993/216-301</td> <td>.../216-302</td> </tr> <tr> <td>4 m</td> <td>771-9993/206-401</td> <td>.../206-402</td> <td>771-9993/216-401</td> <td>.../216-402</td> </tr> <tr> <td>5 m</td> <td>771-9993/206-501</td> <td>.../206-502</td> <td>771-9993/216-501</td> <td>.../216-502</td> </tr> <tr> <td>6 m</td> <td>771-9993/206-601</td> <td>.../206-602</td> <td>771-9993/216-601</td> <td>.../216-602</td> </tr> <tr> <td>7 m</td> <td>771-9993/206-701</td> <td>.../206-702</td> <td>771-9993/216-701</td> <td>.../216-702</td> </tr> <tr> <td>8 m</td> <td>771-9993/206-801</td> <td>.../206-802</td> <td>771-9993/216-801</td> <td>.../216-802</td> </tr> </tbody> </table>	Length	Item no. black	Item no. white	Item no. black	Item no. white	Coding A ● ○					PVC		halogen-free			1 m	771-9993/206-101	.../206-102	771-9993/216-101	.../216-102	2 m	771-9993/206-201	.../206-202	771-9993/216-201	.../216-202	3 m	771-9993/206-301	.../206-302	771-9993/216-301	.../216-302	4 m	771-9993/206-401	.../206-402	771-9993/216-401	.../216-402	5 m	771-9993/206-501	.../206-502	771-9993/216-501	.../216-502	6 m	771-9993/206-601	.../206-602	771-9993/216-601	.../216-602	7 m	771-9993/206-701	.../206-702	771-9993/216-701	.../216-702	8 m	771-9993/206-801	.../206-802	771-9993/216-801	.../216-802
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3 m	771-9993/206-301	.../206-302	771-9993/216-301	.../216-302																																																				
4 m	771-9993/206-401	.../206-402	771-9993/216-401	.../216-402																																																				
5 m	771-9993/206-501	.../206-502	771-9993/216-501	.../216-502																																																				
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7 m	771-9993/206-701	.../206-702	771-9993/216-701	.../216-702																																																				
8 m	771-9993/206-801	.../206-802	771-9993/216-801	.../216-802																																																				



Info	Accessories
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
① Approval data can be found in the online catalog at www.wagocatalog.com
Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!

Other cables on request



- black Coding A (L ⊕ N)
- white Coding A (L ⊕ N)
- red Coding P (L ⊕ N)

Please find some information on the different codings on pages 146 and 147

Locking levers, manually operated,

for "flying leads"			
	black	770-101	100 (4 x 25)
	white	770-121	100 (4 x 25)

Locking levers, tool operated,


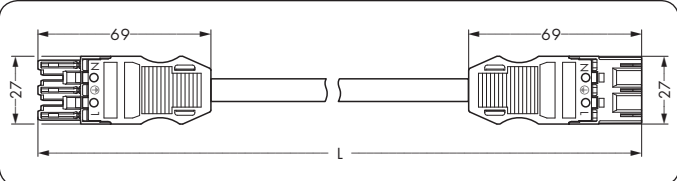

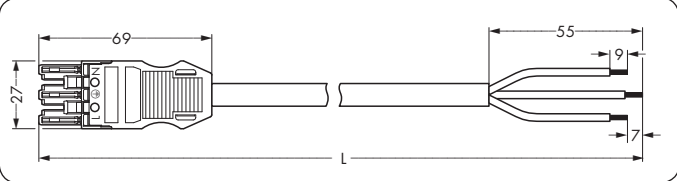

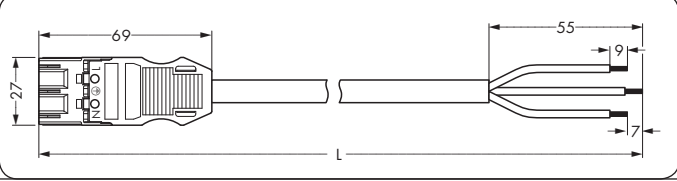
for "flying leads"			
	black	770-111	100 (4 x 25)
	white	770-131	100 (4 x 25)

Lockout caps, for socket, separable, 12 poles

	black	770-201	100
	white	770-221	100

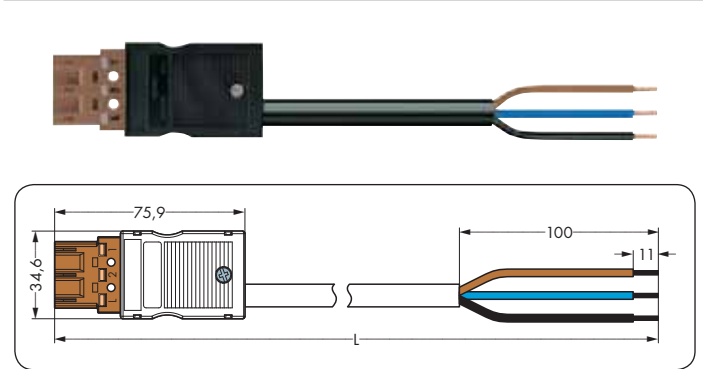
Coding pin, for plug

	gray	770-401	100
---	------	---------	-----

		PVC	H05VV-F 3G1.5
		halogen-free	H05Z1Z1-F 3G1.5
		250 V/4 kV/3 16 A	
		Wire ends bonded 9 mm/0.35 in	
		① Approvals	
Interconnecting cables, socket - plug		Length Item no. black	Item no. black
 	Coding P ●		
	PVC		halogen-free
	1 m	771-9973/006-101	771-9973/016-101
	2 m	771-9973/006-201	771-9973/016-201
	3 m	771-9973/006-301	771-9973/016-301
	4 m	771-9973/006-401	771-9973/016-401
	5 m	771-9973/006-501	771-9973/016-501
	6 m	771-9973/006-601	771-9973/016-601
	7 m	771-9973/006-701	771-9973/016-701
	8 m	771-9973/006-801	771-9973/016-801
Connecting cables, socket - free end		Length Item no. black	Item no. black
 	Coding P ●		
	PVC		halogen-free
	1 m	771-9973/106-101	771-9973/116-101
	2 m	771-9973/106-201	771-9973/116-201
	3 m	771-9973/106-301	771-9973/116-301
	4 m	771-9973/106-401	771-9973/116-401
	5 m	771-9973/106-501	771-9973/116-501
	6 m	771-9973/106-601	771-9973/116-601
	7 m	771-9973/106-701	771-9973/116-701
	8 m	771-9973/106-801	771-9973/116-801
Connecting cables, plug - free end		Length Item no. black	Item no. black
 	Coding P ●		
	PVC		halogen-free
	1 m	771-9973/206-101	771-9973/216-101
	2 m	771-9973/206-201	771-9973/216-201
	3 m	771-9973/206-301	771-9973/216-301
	4 m	771-9973/206-401	771-9973/216-401
	5 m	771-9973/206-501	771-9973/216-501
	6 m	771-9973/206-601	771-9973/216-601
	7 m	771-9973/206-701	771-9973/216-701
	8 m	771-9973/206-801	771-9973/216-801
Lengths	Pack.-unit	Accessories	
1 m	50	Locking levers, manually operated,	
2, 3, 4 m	25	for "flying leads"	
5, 6 m	15	black	770-101 100 (4 x 25)
7, 8 m	10	white	770-121 100 (4 x 25)
Other lengths on request		Locking levers, tool operated,	
		for "flying leads"	
		black	770-111 100 (4 x 25)
		white	770-131 100 (4 x 25)
		Lockout caps, for socket, separable, 12 poles	
		black	770-201 100
		white	770-221 100
		Coding pin, for plug	
		gray	770-401 100

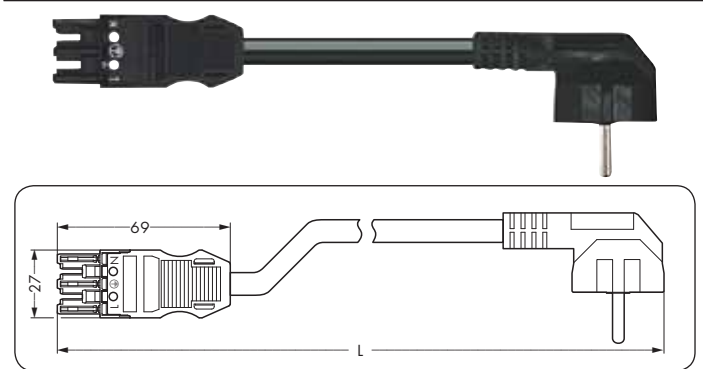
	PVC H05VV-F 3x1.5 halogen-free H05Z1Z1-F 3x1.5 250 V/4 kV/3 16 A Wire ends bonded 9 mm/0.35 in ① Approvals
--	--

Interconnecting cables, plug - free end ②



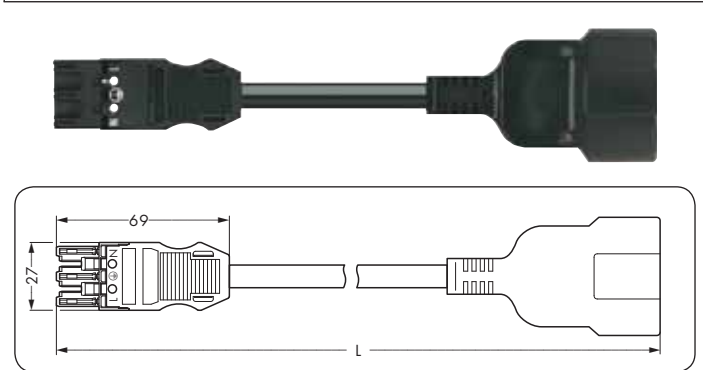
Length	Item no. black	Item no. black
Connecting cables for distribution connectors (series and two-way circuits), coding S ●		
	PVC	halogen-free
1 m	771-8973/206-104	771-8973/216-104
2 m	771-8973/206-204	771-8973/216-204
3 m	771-8973/206-304	771-8973/216-304
4 m	771-8973/206-404	771-8973/216-404
5 m	771-8973/206-504	771-8973/216-504
6 m	771-8973/206-604	771-8973/216-604
7 m	771-8973/206-704	771-8973/216-704
8 m	771-8973/206-804	771-8973/216-804

Connecting cables, socket - Schuko plug, angled



Length	Item no. black	Item no. white
Coding A ● ○		
PVC		
1 m	771-9993/306-101 .../306-102	
2 m	771-9993/306-201 .../306-202	
3 m	771-9993/306-301 .../306-302	
4 m	771-9993/306-401 .../306-402	
5 m	771-9993/306-501 .../306-502	
6 m	771-9993/306-601 .../306-602	
7 m	771-9993/306-701 .../306-702	
8 m	771-9993/306-801 .../306-802	

Connecting cables, plug - Schuko socket



Length	Item no. black	Item no. white
Coding A ● ○		
PVC		
1 m	771-9993/406-101 .../406-102	
2 m	771-9993/406-201 .../406-202	
3 m	771-9993/406-301 .../406-302	
4 m	771-9993/406-401 .../406-402	
5 m	771-9993/406-501 .../406-502	
6 m	771-9993/406-601 .../406-602	
7 m	771-9993/406-701 .../406-702	
8 m	771-9993/406-801 .../406-802	

Info

① Approval data can be found in the online catalog at www.wagocatalog.com
 Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!
 Other cables on request

② PVC H05VV-F 3 x 1.5
 halogen-free H05Z1Z1-F 3 x 1.5


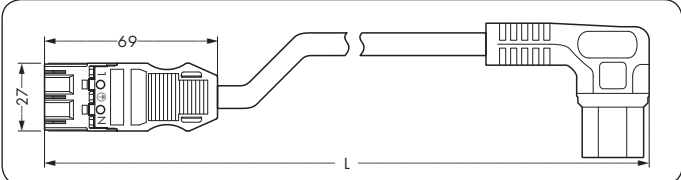
● black Coding A (L ⊕ N)
 ○ white Coding A (L ⊕ N)
 ● brown Coding S (L 2 1)


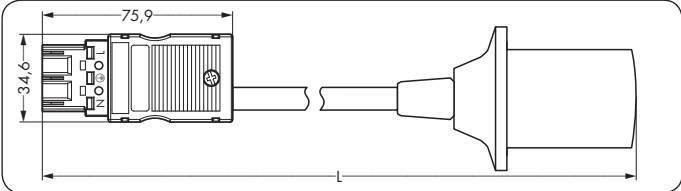
Please find some information on the different codings on pages 146 and 147




Accessories


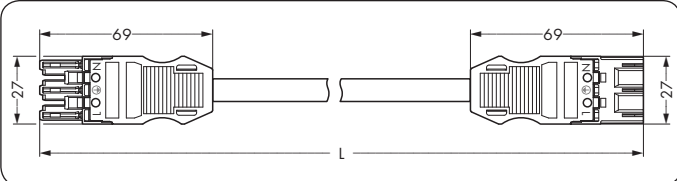

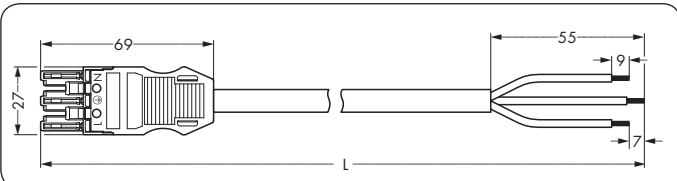


Locking levers, manually operated,			
	for "flying leads"		
	black	770-101	100 (4 x 25)
	white	770-121	100 (4 x 25)
Locking levers, tool operated,			
	for "flying leads"		
	black	770-111	100 (4 x 25)
	white	770-131	100 (4 x 25)
Lockout caps, for socket, separable, 12 poles			
	black	770-201	100
	white	770-221	100
Coding pin, for plug			
	gray	770-401	100


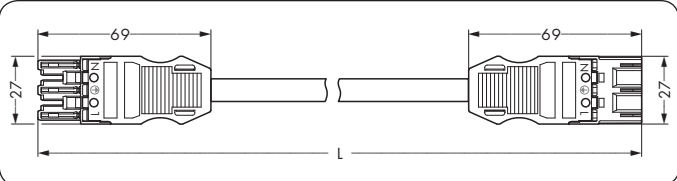

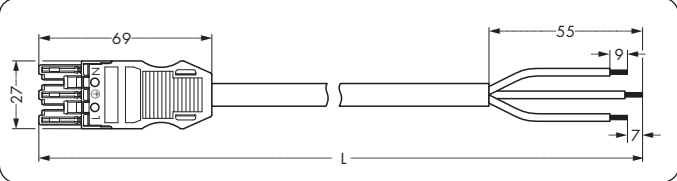

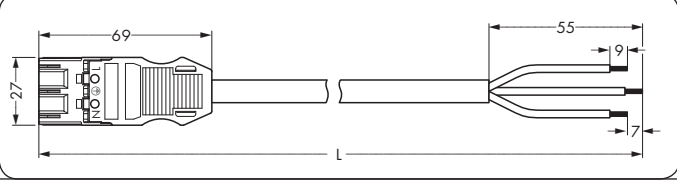
	PVC H05VV-F 3G1.0 10 A ③ H05VV-F 3G0.75 4 A ④
	250 V/4 kV/3 ① Approvals



Connecting cables, plug - cold equipment coupling, angled ③	Length Item no. black Item no. white
	Coding A ● ○ PVC
	1 m 771-9993/805-101 .../805-102 2 m 771-9993/805-201 .../805-202 3 m 771-9993/805-301 .../805-302 4 m 771-9993/805-401 .../805-402 5 m 771-9993/805-501 .../805-502 6 m 771-9993/805-601 .../805-602 7 m 771-9993/805-701 .../805-702 8 m 771-9993/805-801 .../805-802

Plug - lamp socket E 27 ④	Length Item no. black
	Coding A ● ● e.g., for temporary construction site lighting
	0.5 m 771-8993/1004-051
	Other lengths on request

Lengths	Pack.-unit	Accessories	
1 m	50		Locking levers, manually operated, for "flying leads"
2, 3, 4 m	25	black	770-101 100 (4 x 25)
5, 6 m	15	white	770-121 100 (4 x 25)
7, 8 m	10		Locking levers, tool operated, for "flying leads"
Other lengths on request		black	770-111 100 (4 x 25)
		white	770-131 100 (4 x 25)
			Coding pin, for plug
		gray	770-401 100

		PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5 250 V/4 kV/3 20 A Wire ends bonded 9 mm/0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC			halogen-free	
		1 m	771-9993/007-101	.../007-102	771-9993/017-101	.../017-102
		2 m	771-9993/007-201	.../007-202	771-9993/017-201	.../017-202
		3 m	771-9993/007-301	.../007-302	771-9993/017-301	.../017-302
		4 m	771-9993/007-401	.../007-402	771-9993/017-401	.../017-402
		5 m	771-9993/007-501	.../007-502	771-9993/017-501	.../017-502
		6 m	771-9993/007-601	.../007-602	771-9993/017-601	.../017-602
		7 m	771-9993/007-701	.../007-702	771-9993/017-701	.../017-702
		8 m	771-9993/007-801	.../007-802	771-9993/017-801	.../017-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC			halogen-free	
		1 m	771-9993/107-101	.../107-102	771-9993/117-101	.../117-102
		2 m	771-9993/107-201	.../107-202	771-9993/117-201	.../117-202
		3 m	771-9993/107-301	.../107-302	771-9993/117-301	.../117-302
		4 m	771-9993/107-401	.../107-402	771-9993/117-401	.../117-402
		5 m	771-9993/107-501	.../107-502	771-9993/117-501	.../117-502
		6 m	771-9993/107-601	.../107-602	771-9993/117-601	.../117-602
		7 m	771-9993/107-701	.../107-702	771-9993/117-701	.../117-702
		8 m	771-9993/107-801	.../107-802	771-9993/117-801	.../117-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC			halogen-free	
		1 m	771-9993/207-101	.../207-102	771-9993/217-101	.../217-102
		2 m	771-9993/207-201	.../207-202	771-9993/217-201	.../217-202
		3 m	771-9993/207-301	.../207-302	771-9993/217-301	.../217-302
		4 m	771-9993/207-401	.../207-402	771-9993/217-401	.../217-402
		5 m	771-9993/207-501	.../207-502	771-9993/217-501	.../217-502
		6 m	771-9993/207-601	.../207-602	771-9993/217-601	.../217-602
		7 m	771-9993/207-701	.../207-702	771-9993/217-701	.../217-702
		8 m	771-9993/207-801	.../207-802	771-9993/217-801	.../217-802
Info		① Approval data can be found in the online catalog at www.wagocatalog.com Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications! Other cables on request ● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N) ● red Coding P (L ⊕ N) Please find some information on the different codings on pages 146 and 147				
Accessories		Locking levers, manually operated, for "flying leads" black 770-101 100 (4 x 25) white 770-121 100 (4 x 25) Locking levers, tool operated, for "flying leads" black 770-111 100 (4 x 25) white 770-131 100 (4 x 25) Lockout caps, for socket, separable, 12 poles black 770-201 100 white 770-221 100 Coding pin, for plug gray 770-401 100				





		PVC	H05VV-F 3G2.5
		halogen-free	H05Z1Z1-F 3G2.5
		250 V/4 kV/3 20 A	
		Wire ends bonded 9 mm/0.35 in	
		① Approvals	
Interconnecting cables, socket - plug	Length	Item no. black	Item no. black
 	Coding P	●	
	PVC		halogen-free
	1 m	771-9973/007-101	771-9973/017-101
	2 m	771-9973/007-201	771-9973/017-201
	3 m	771-9973/007-301	771-9973/017-301
	4 m	771-9973/007-401	771-9973/017-401
	5 m	771-9973/007-501	771-9973/017-501
	6 m	771-9973/007-601	771-9973/017-601
	7 m	771-9973/007-701	771-9973/017-701
	8 m	771-9973/007-801	771-9973/017-801
Connecting cables, socket - free end	Length	Item no. black	Item no. black
 	Coding P	●	
	PVC		halogen-free
	1 m	771-9973/107-101	771-9973/117-101
	2 m	771-9973/107-201	771-9973/117-201
	3 m	771-9973/107-301	771-9973/117-301
	4 m	771-9973/107-401	771-9973/117-401
	5 m	771-9973/107-501	771-9973/117-501
	6 m	771-9973/107-601	771-9973/117-601
	7 m	771-9973/107-701	771-9973/117-701
	8 m	771-9973/107-801	771-9973/117-801
Connecting cables, plug - free end	Length	Item no. black	Item no. black
 	Coding P	●	
	PVC		halogen-free
	1 m	771-9973/207-101	771-9973/217-101
	2 m	771-9973/207-201	771-9973/217-201
	3 m	771-9973/207-301	771-9973/217-301
	4 m	771-9973/207-401	771-9973/217-401
	5 m	771-9973/207-501	771-9973/217-501
	6 m	771-9973/207-601	771-9973/217-601
	7 m	771-9973/207-701	771-9973/217-701
	8 m	771-9973/207-801	771-9973/217-801
Lengths	Pack.-unit	Accessories	
1 m	50	Locking levers, manually operated,	
2, 3, 4 m	25	for "flying leads"	
5, 6 m	15	black	770-101 100 (4 x 25)
7, 8 m	10	white	770-121 100 (4 x 25)
Other lengths on request		Locking levers, tool operated,	
		for "flying leads"	
		black	770-111 100 (4 x 25)
		white	770-131 100 (4 x 25)
		Lockout caps, for socket, separable, 12 poles	
		black	770-201 100
		white	770-221 100
		Coding pin, for plug	
		gray	770-401 100

<p>2 x 0.5 – 4 mm² ① 400 V/6 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 - 12</p> <p>2 x 0.5 – 4 mm² ① 400 V/6 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Connectors, 4 poles, with CAGE CLAMP®S connection	Sockets with strain relief housing, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ③			Plugs with strain relief housing, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ③		
	black	770-104	● 25	black	770-114	● 25
	white	770-124	○ 25	white	770-134	○ 25

Accessories

 Locking levers, manually operated, for "flying leads"	black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)
	white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)
 Locking levers, tool operated, for "flying leads"	black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)
	white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)
 Lockout caps, for socket, separable, 12 poles	black	770-201	100			
	white	770-221	100			
 Coding pin, for plug				gray	770-401	100

Info	Dimensions (in mm)
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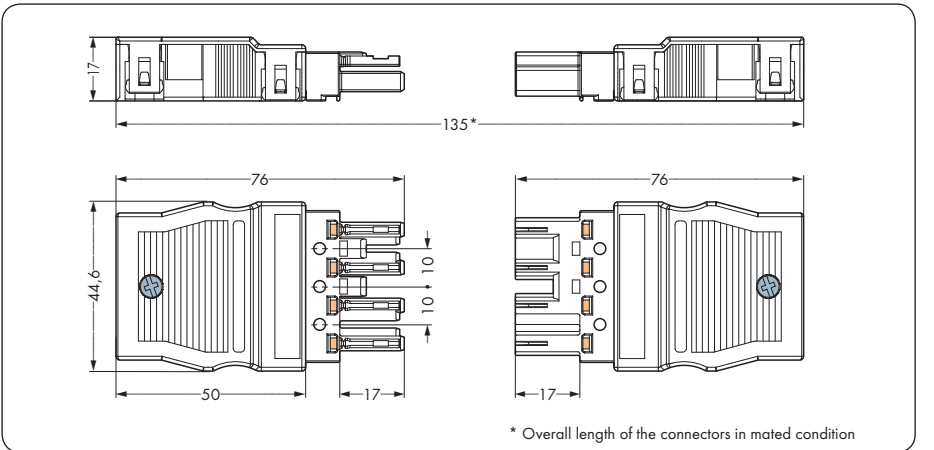
① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"

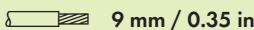

② Approval data can be found in the online catalog at www.wagocatalog.com

③ More strain relief housings see page 46

● black Coding A (N ⊕ 2 1)
○ white Coding A (N ⊕ 2 1)
● gray Coding B (1 2 3 4)
● green Coding Q (N PE1 PE2 L)

Please find some information on the different codings on pages 146 and 147



2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12
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NOTE:

All products for fixed installations (snap-in versions, distribution connectors) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for "flying leads" (plug/socket).

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets without strain relief housing			Plugs without strain relief housing		
black	770-204 ●	50	black	770-214 ●	50
white	770-224 ○	50	white	770-234 ○	50
gray	770-244 ●	50	gray	770-254 ●	50
For "Clean Earth" applications (up to 32 A)			For "Clean Earth" applications (up to 32 A)		
green	770-1324 ●	50	green	770-1334 ●	50
black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)
white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)
black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)
white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)
black	770-201	100			
white	770-221	100			
			gray	770-401	100



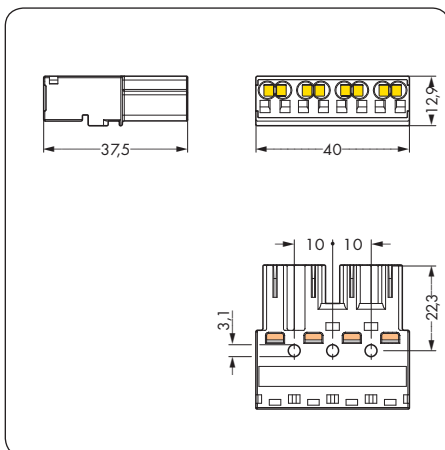
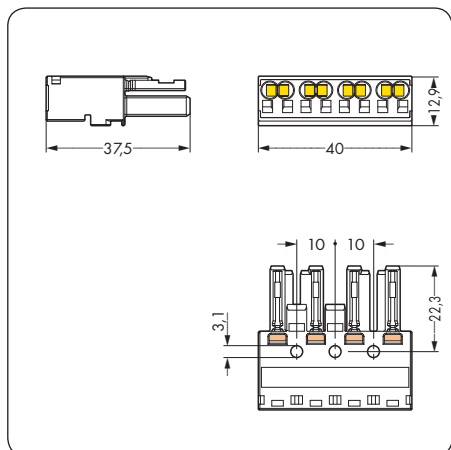
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



Locking lever, manually operated:
1.) Press on locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



Strain Relief Housings, 4 Poles, for Different Cable Diameters

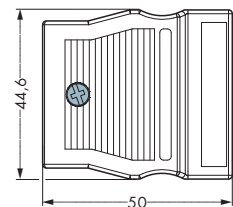
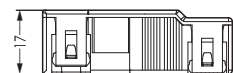
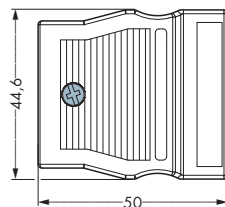
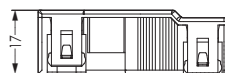
	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 4-pole sockets - 4-pole plugs <p>① Approvals</p>	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 4-pole sockets - 4-pole plugs <p>① Approvals</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Strain relief housings	Strain relief housings, for 2 cables, diameter 5 - 9 mm / 0.19 - 0.35 in ②			Strain relief housings, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ②		
	black	770-504/023-000	50	black	770-504	50
	white	770-514/023-000	50	white	770-514	50
Accessories						
Marker strips, self-adhesive, on DIN A 1 card, strip length 182 mm / 7.16 in	Height 6 mm / 0.23 in	210-333	100	Height 6 mm / 0.23 in	210-333	100
	Size of the marker field 38 x 6.5 mm / 1.49 x 0.25 in			Size of the marker field 38 x 6.5 mm / 1.49 x 0.25 in		

Info	Dimensions (in mm)
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
- ① Approval data can be found in the online catalog at www.wagocatalog.com
- ② For H05VV and NYM cables
Other cables on request








WINSTA® - The perfect connection!

2 x 0.5 – 4 mm² ① | 2 x AWG 20 - 12
400 V/6 kV/3
25 A

 9 mm / 0.35 in

② Approvals



Description	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 4 poles, with CAGE CLAMP®S connection	Sockets		
	black	770-704 ●	100
	white	770-724 ○	100
	gray	770-744 ●	100
	For "Clean Earth" applications (up to 32 A) green	770-2324 ●	50
Accessories			
Lockout caps, for cut-out			
	black	770-644	100
	white	770-694	100
Lockout caps, for socket, separable, 12 poles			
	black	770-201	100
	white	770-221	100
Coding pin, for plug			
			

Info	Dimensions (in mm)
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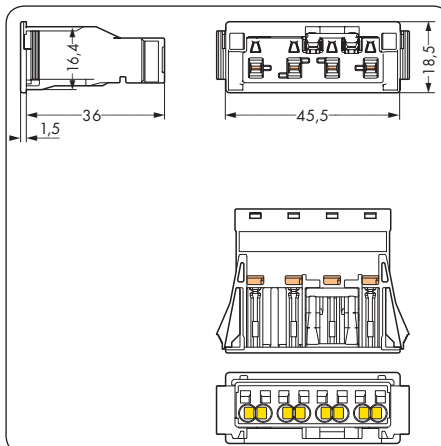
① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"



② Approval data can be found in the online catalog at www.wagocatalog.com

③ Direct contact of the ground conductor on position PE1

● black Coding A (N ⊕ 2 1)
○ white Coding A (N ⊕ 2 1)
● gray Coding B (1 2 3 4)
● green Coding Q (N PE1 PE2 L)

Please find some information on the different codings on pages 146 and 147



<p>2 x 0.5 – 4 mm² ①</p> <p>400 V/6 kV/3</p> <p>25 A</p>	<p>2 x AWG 20 - 12</p>	<p>2 x 0.5 – 4 mm² ①</p> <p>400 V/6 kV/3</p> <p>25 A</p>	<p>2 x AWG 20 - 12</p>
<p> 9 mm / 0.35 in</p> <p>② Approvals</p>		<p> 9 mm / 0.35 in</p> <p>② Approvals</p>	



Direct contacting of the ground conductor



Varnish-piercing direct contacting of the earth conductor. ③

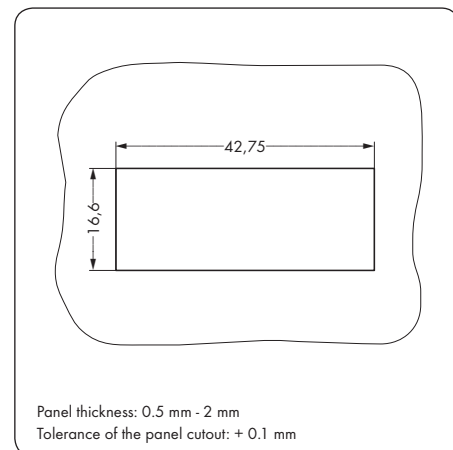
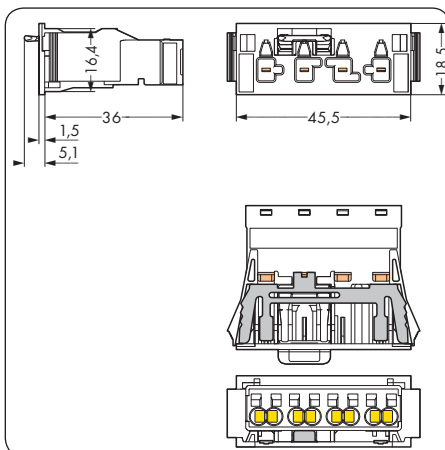
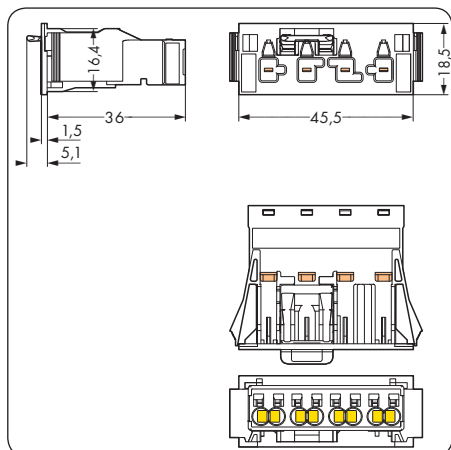
Lockout cap



Seal unused cutout with lockout cap.

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Plugs			Plugs, with direct contacting of the ground conductor		
black	770-714 ●	100	black	770-714/007-000 ●	100
white	770-734 ○	100	white	770-734/007-000 ○	100
gray	770-754 ●	100			
For "Clean Earth" applications (up to 32 A)			For "Clean Earth" applications (up to 32 A)		
green	770-2334 ●	50	green	770-2334/007-000 ●	50 ③
black	770-644	100	black	770-644	100
white	770-694	100	white	770-694	100
gray	770-401	100	gray	770-401	100



Cut-out dimensions



	<p>400 V/6 kV/3 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 25 A ①</p> <p>② Approvals</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
PCB connectors, 2 solder pins per pole	Sockets, straight type			Plugs, straight type		
	black	770-804 ●	50	black	770-814 ●	50
	white	770-824 ○	50	white	770-834 ○	50
	gray	770-844 ●	50	gray	770-854 ●	50

Accessories						
Lockout caps, for socket,  separable, 12 poles	black	770-201	100			
	white	770-221	100			
Coding pin, for plug 				gray	770-401	100

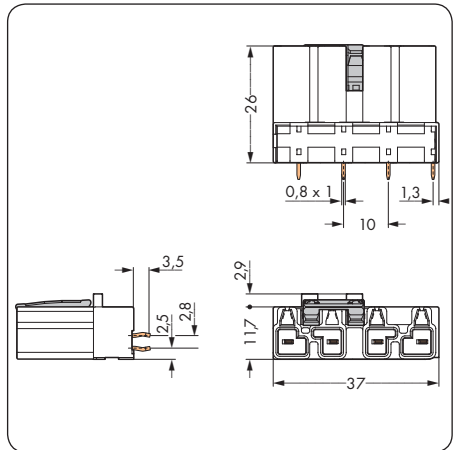
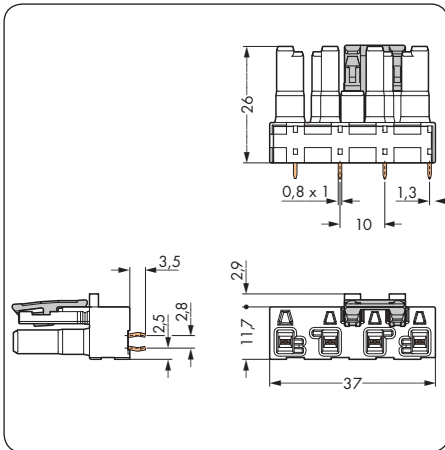
Info	Dimensions (in mm)
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① Current load see table on page 51

② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (N ⊕ 2 1)
○ white Coding A (N ⊕ 2 1)
● gray Coding B (1 2 3 4)

Please find some information on the different codings on pages 146 and 147



400 V/6 kV/3 25 A ①	400 V/6 kV/3 25 A ①
② Approvals	② Approvals

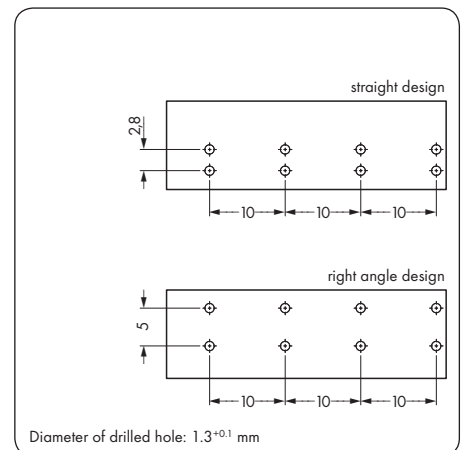
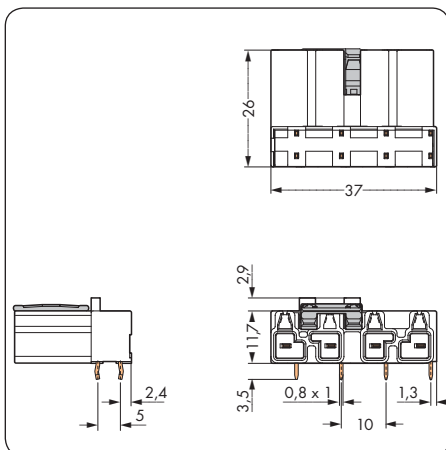
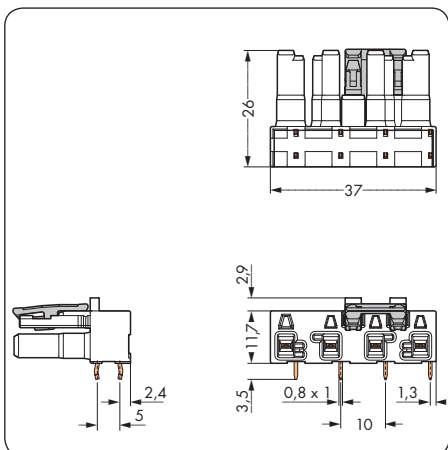


① Depends on the PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor cross section
16 A	70 µm one side	7 mm / 0.27 in	△1.5 mm ² / AWG 16
20 A	70 µm one side	7 mm / 0.27 in	△2.5 mm ² / AWG 14
25 A	105 µm both sides	7 mm / 0.27 in	△4 mm ² / AWG 12

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets, angled type			Plugs, angled type		
black	770-804/011-000 ●	50	black	770-814/011-000 ●	50
white	770-824/011-000 ○	50	white	770-834/011-000 ○	50
gray	770-844/011-000 ●	50	gray	770-854/011-000 ●	50
black	770-201	100			
white	770-221	100			
			gray	770-401	100


Hole patterns



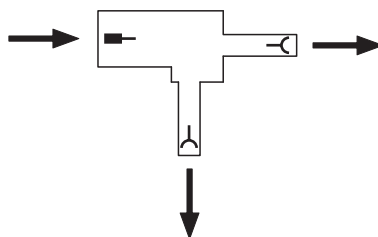
	<p>400 V/6 kV/3 25 A</p> <p>➊ Approvals</p>	
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Description	Color	Item no.	Pack.-unit
Distribution connectors, pluggable	T-distribution connectors, 1 x plug / 2 x socket		
	black	770-626 ●	50
	white	770-676 ○	50
	for "flying leads", with 3rd locking lever		
	black	770-627 ●	50
	white	770-677 ○	50

Accessories			
 Lockout caps, for socket, separable, 12 poles	black	770-201	100
	white	770-221	100

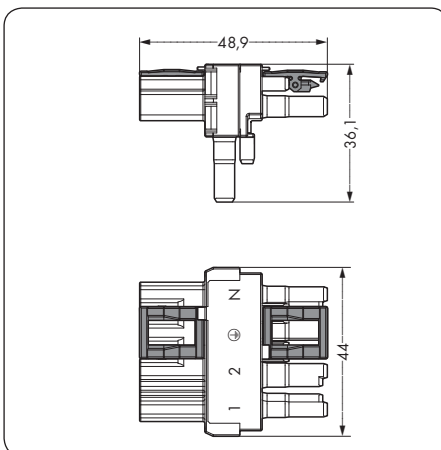
Info	Dimensions (in mm)
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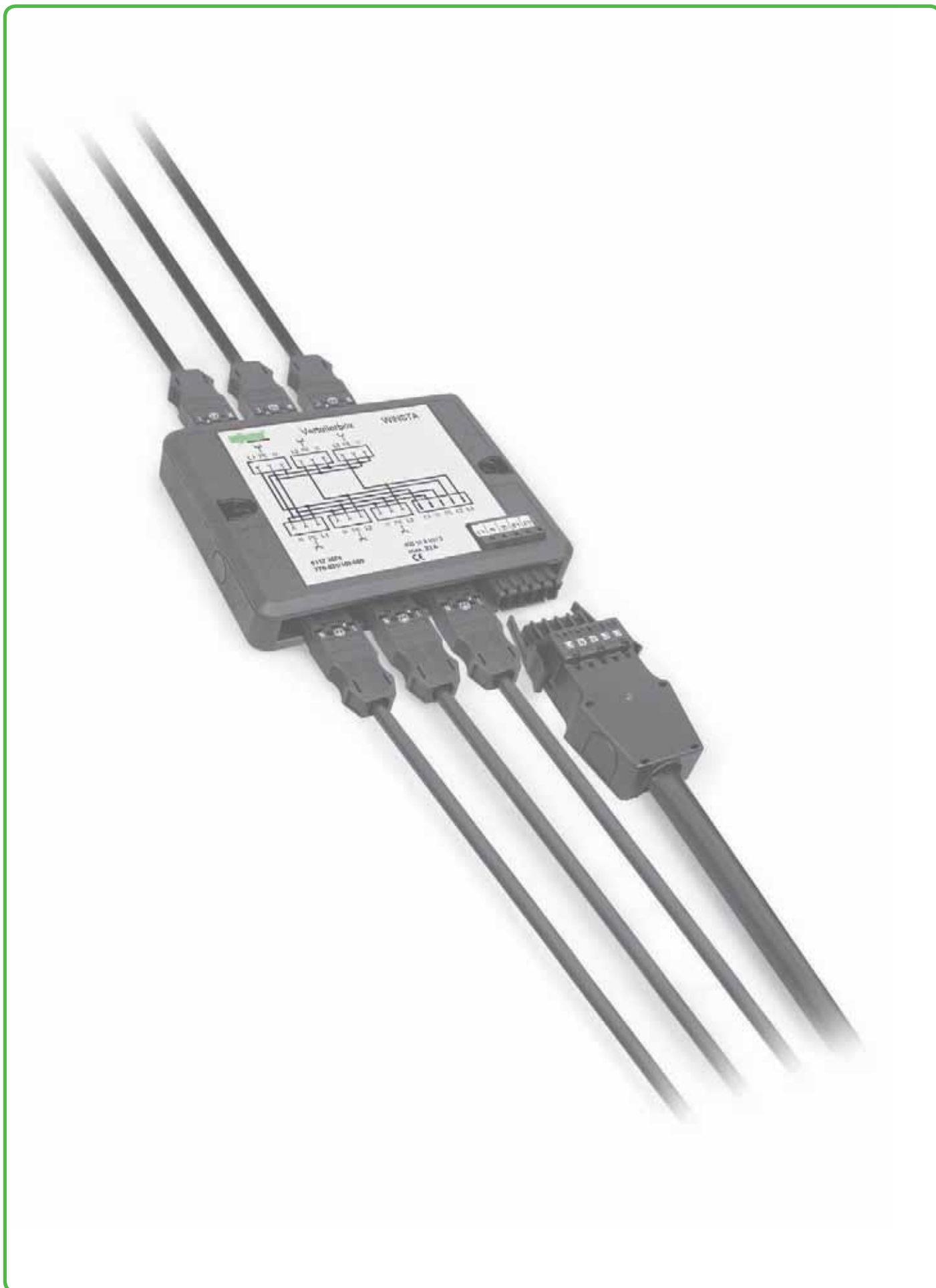


➊ Approval data can be found in the online catalog at www.wagocatalog.com


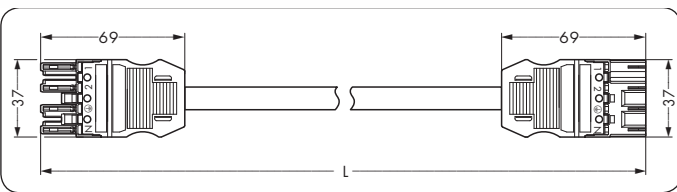

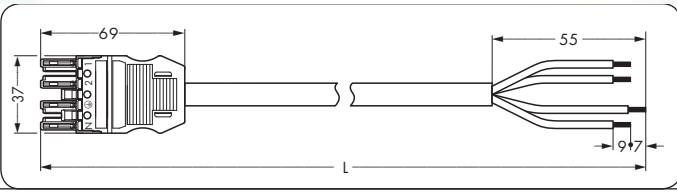

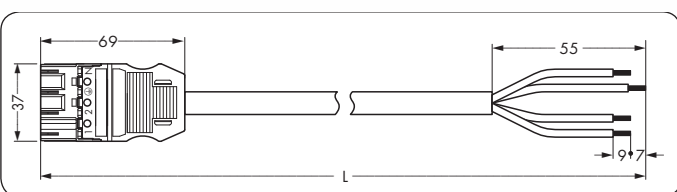
● black Coding A (N ⊕ 2 1)
○ white Coding A (N ⊕ 2 1)

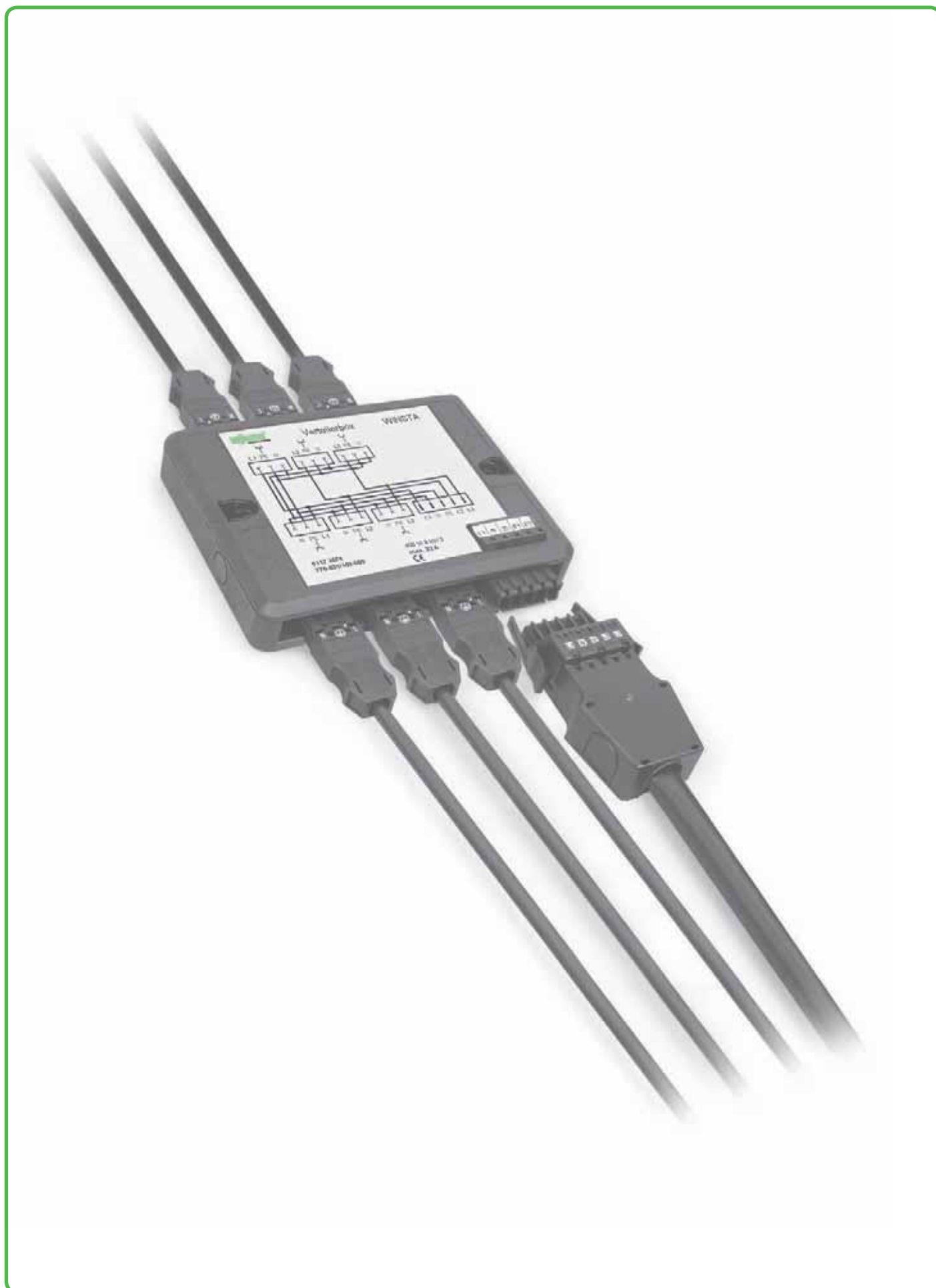
Please find some information on the different codings on pages 146 and 147







WINSTA® - The perfect connection!

		PVC H05VV-F 4G1.5 halogen-free H05Z1Z1-F 4G1.5 400 V/6 kV/3 16 A Wire ends bonded 9 mm/0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9994/006-101	.../006-102	771-9994/016-101	.../016-102
		2 m	771-9994/006-201	.../006-202	771-9994/016-201	.../016-202
		3 m	771-9994/006-301	.../006-302	771-9994/016-301	.../016-302
		4 m	771-9994/006-401	.../006-402	771-9994/016-401	.../016-402
		5 m	771-9994/006-501	.../006-502	771-9994/016-501	.../016-502
		6 m	771-9994/006-601	.../006-602	771-9994/016-601	.../016-602
		7 m	771-9994/006-701	.../006-702	771-9994/016-701	.../016-702
		8 m	771-9994/006-801	.../006-802	771-9994/016-801	.../016-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9994/106-101	.../106-102	771-9994/116-101	.../116-102
		2 m	771-9994/106-201	.../106-202	771-9994/116-201	.../116-202
		3 m	771-9994/106-301	.../106-302	771-9994/116-301	.../116-302
		4 m	771-9994/106-401	.../106-402	771-9994/116-401	.../116-402
		5 m	771-9994/106-501	.../106-502	771-9994/116-501	.../116-502
		6 m	771-9994/106-601	.../106-602	771-9994/116-601	.../116-602
		7 m	771-9994/106-701	.../106-702	771-9994/116-701	.../116-702
		8 m	771-9994/106-801	.../106-802	771-9994/116-801	.../116-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9994/206-101	.../206-102	771-9994/216-101	.../216-102
		2 m	771-9994/206-201	.../206-202	771-9994/216-201	.../216-202
		3 m	771-9994/206-301	.../206-302	771-9994/216-301	.../216-302
		4 m	771-9994/206-401	.../206-402	771-9994/216-401	.../216-402
		5 m	771-9994/206-501	.../206-502	771-9994/216-501	.../216-502
		6 m	771-9994/206-601	.../206-602	771-9994/216-601	.../216-602
		7 m	771-9994/206-701	.../206-702	771-9994/216-701	.../216-702
		8 m	771-9994/206-801	.../206-802	771-9994/216-801	.../216-802
Info		① Approval data can be found in the online catalog at www.wagocatalog.com Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications! Other cables on request ● black Coding A (N ⊕ 2 1) ○ white Coding A (N ⊕ 2 1) Please find some information on the different codings on pages 146 and 147				
Accessories		Locking levers, manually operated, for "flying leads" black 770-101 100 (4 x 25) white 770-121 100 (4 x 25) Locking levers, tool operated, for "flying leads" black 770-111 100 (4 x 25) white 770-131 100 (4 x 25) Lockout caps, for socket, separable, 12 poles black 770-201 100 white 770-221 100 Coding pin, for plug gray 770-401 100				







WINSTA® - The perfect connection!

<p>2 x 0.5 – 4 mm² ❶ 400 V/6 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 - 12</p> <p>2 x 0.5 – 4 mm² ❶ 400 V/6 kV/3 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Connectors, 5 poles, with CAGE CLAMP®S connection	Sockets with strain relief housing, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ❸			Plugs with strain relief housing, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ❸		
	black	770-105	● 25	black	770-115	● 25
	white	770-125	○ 25	white	770-135	○ 25

Accessories

 Locking levers, manually operated, for "flying leads"	black	770-101	● 100 (4 x 25)	black	770-101	● 100 (4 x 25)
	white	770-121	○ 100 (4 x 25)	white	770-121	○ 100 (4 x 25)
 Locking levers, tool operated, for "flying leads"	black	770-111	● 100 (4 x 25)	black	770-111	● 100 (4 x 25)
	white	770-131	○ 100 (4 x 25)	white	770-131	○ 100 (4 x 25)
 Lockout caps, for socket, separable, 12 poles	black	770-201	100			
	white	770-221	100			
 Coding pin, for plug				gray	770-401	100

Info	Dimensions (in mm)
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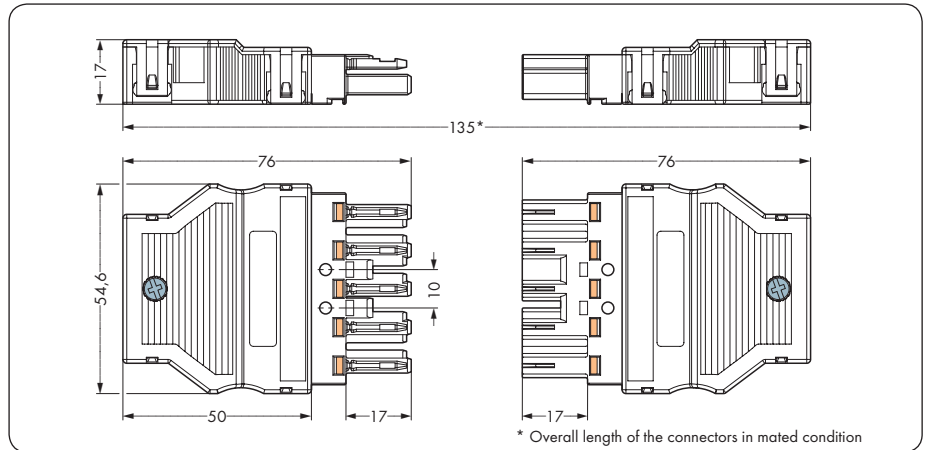
❶ Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"

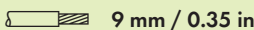

❷ Approval data can be found in the online catalog at www.wagocatalog.com

❸ More strain relief housings see pages 60 and 61

● black	Coding A	(N ⊕ L1 L2 L3)
○ white	Coding A	(N ⊕ L1 L2 L3)
● gray	Coding B	(1 2 3 4 5)
● blue	Coding I	(N ⊕ L DA- DA+)
● red	Coding P	(N ⊕ L1 L2 L3)
● green	Coding Q	(N PE1 PE2 PE3 L)

Please find some information on the different codings on pages 146 and 147



2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12
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NOTE:

All products for fixed installations (snap-in versions, distribution connectors) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for "flying leads" (plug/socket).

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets without strain relief housing			Plugs without strain relief housing		
black	770-205 ●	50	black	770-215 ●	50
white	770-225 ○	50	white	770-235 ○	50
gray	770-245 ●	50	gray	770-255 ●	50
blue	770-1105 ●	50	blue	770-1115 ●	50
red	770-1305 ●	50	red	770-1315 ●	50
For "Clean Earth" applications (up to 32 A)			For "Clean Earth" applications (up to 32 A)		
green	770-1325 ●	50	green	770-1335 ●	50
black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)
white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)
black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)
white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)
black	770-201	100			
white	770-221	100			
			gray	770-401	100



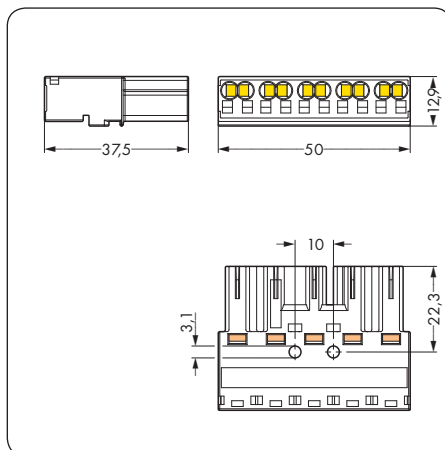
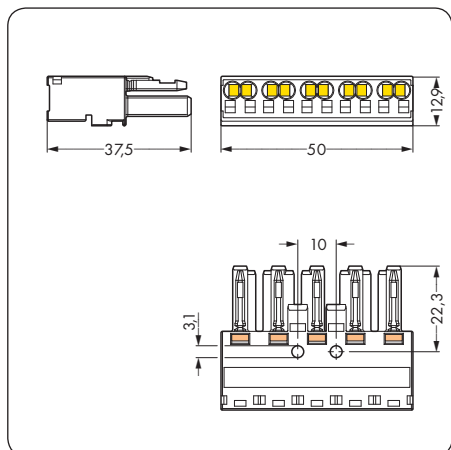
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



Locking lever, manually operated:
1.) Press on locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)







Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



<p>0.5 – 4 mm² ❶ 400 V/6 kV/3 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>AWG 20 - 12</p> <p>0.5 – 4 mm² ❶ 400 V/6 kV/3 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Connectors, 5 poles, 1-conductor connection, with CAGE CLAMP®S connection	Sockets with strain relief housing, for cable diameter 9 - 13 mm / 0.35 - 0.51 in ❸			Plugs with strain relief housing, for cable diameter 9 - 13 mm / 0.35 - 0.51 in ❸		
A generously dimensioned funneled conductor entry hole makes wire connection easier, especially with solid conductors (e.g. NYM)	black	770-305 ●	25	black	770-315 ●	25
	white	770-325 ○	25	white	770-335 ○	25

Accessories						
 <p>Locking levers, manually operated, for "flying leads"</p>	black	770-101 ●	100 (4 x 25)	black	770-101 ●	100 (4 x 25)
	white	770-121 ○	100 (4 x 25)	white	770-121 ○	100 (4 x 25)
 <p>Locking levers, tool operated, for "flying leads"</p>	black	770-111 ●	100 (4 x 25)	black	770-111 ●	100 (4 x 25)
	white	770-131 ○	100 (4 x 25)	white	770-131 ○	100 (4 x 25)
 <p>Lockout caps, for socket, separable, 12 poles</p>	black	770-201	100			
	white	770-221	100			
 <p>Coding pin, for plug</p>				gray	770-401	100

Info	Dimensions (in mm)
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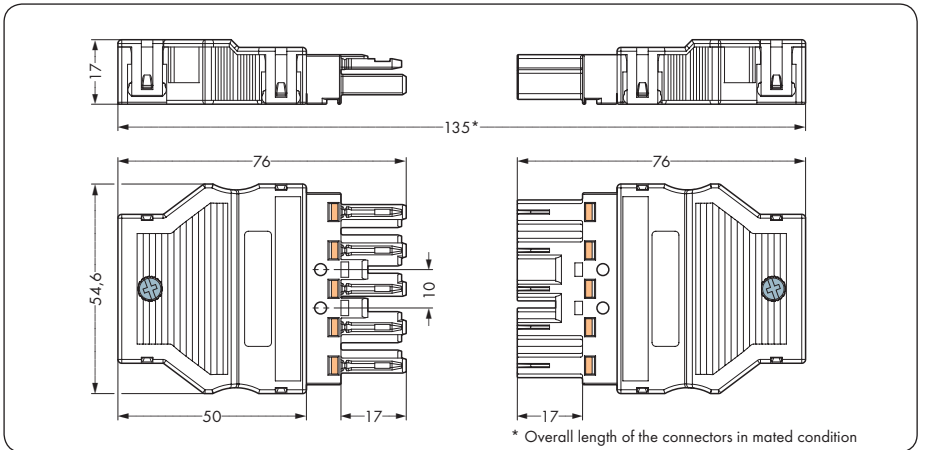
❶ Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"

❷ Approval data can be found in the online catalog at www.wagocatalog.com

❸ More strain relief housings see pages 60 and 61

● black Coding A (N ⊕ L1 L2 L3)
○ white Coding A (N ⊕ L1 L2 L3)

Please find some information on the different codings on pages 146 and 147



0.5 – 4 mm ² ① 400 V/6 kV/3 25 A	AWG 20 - 12	0.5 – 4 mm ² ① 400 V/6 kV/3 25 A	AWG 20 - 12
9 mm / 0.35 in		9 mm / 0.35 in	
② Approvals		② Approvals	



NOTE:

All products for fixed installations (snap-in versions, distribution connectors) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for "flying leads" (plug/socket).

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets without strain relief housing			Plugs without strain relief housing		
black	770-405 ●	50	black	770-415 ●	50
white	770-425 ○	50	white	770-435 ○	50
black	770-101	100 (4 x 25)	black	770-101	100 (4 x 25)
white	770-121	100 (4 x 25)	white	770-121	100 (4 x 25)
black	770-111	100 (4 x 25)	black	770-111	100 (4 x 25)
white	770-131	100 (4 x 25)	white	770-131	100 (4 x 25)
black	770-201	100			
white	770-221	100			
			gray	770-401	100



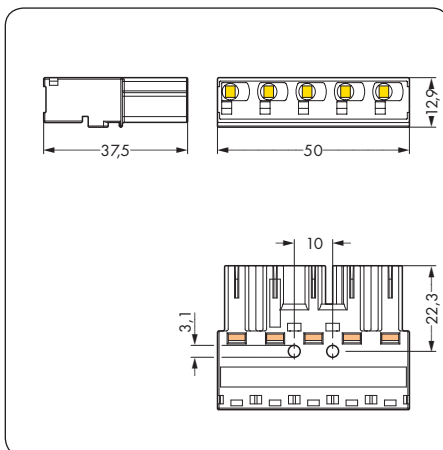
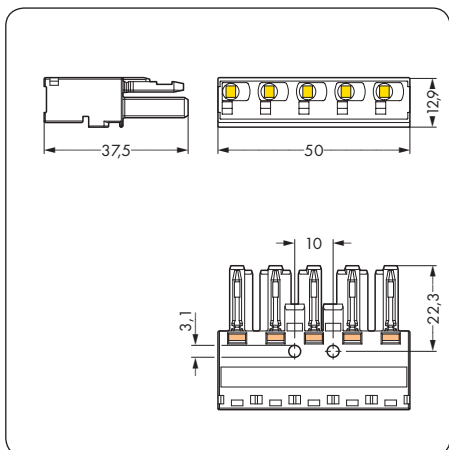
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



Locking lever, manually operated:
1.) Press on locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



Strain Relief Housings, 5 Poles, for Different Cable Diameters

<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 5-pole sockets - 5-pole plugs <p>➊ Approvals</p>	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 5-pole sockets - 5-pole plugs <p>➊ Approvals</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Strain relief housings, 5 poles	Strain relief housings, for 2 cables, diameter 5 - 9 mm / 0.19 - 0.35 in ➋			Strain relief housings, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in ➋		
	black	770-505/023-000	25	black	770-505	25
	white	770-515/023-000	25	white	770-515	25

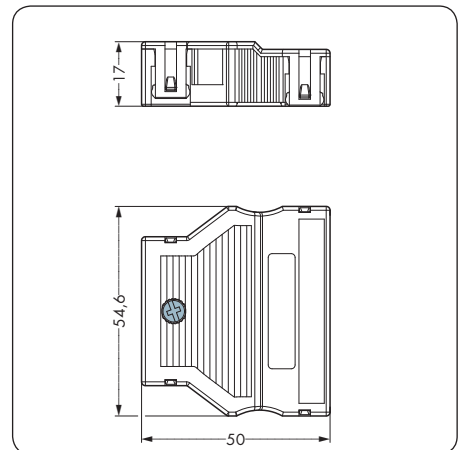
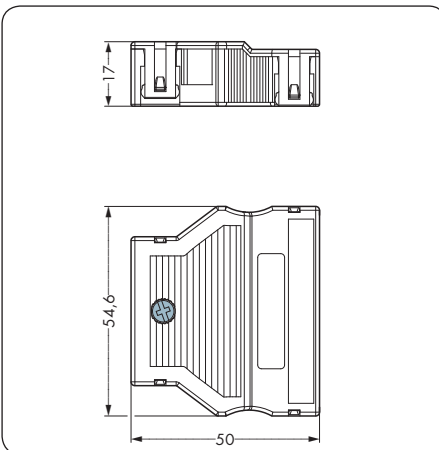
Accessories						
Marker strips, self-adhesive, on DIN A 1 card, strip length 182 mm / 7.16 in	Height 6 mm / 0.23 in	210-333	100	Height 6 mm / 0.23 in	210-333	100
	Size of the marker field 48 x 6.5 mm / 1.89 x 0.25 in			Size of the marker field 48 x 6.5 mm / 1.89 x 0.25 in		

Info	Dimensions (in mm)
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
➊ Approval data can be found in the online catalog at www.wagocatalog.com

➋ For H05VV and NYM cables

Other cables on request






Snap-In Sockets and Plugs, 5 Poles

	2 x 0.5 – 4 mm² ① 400 V/6 kV/3 25 A	2 x AWG 20 - 12	
	 9 mm / 0.35 in		
	② Approvals		

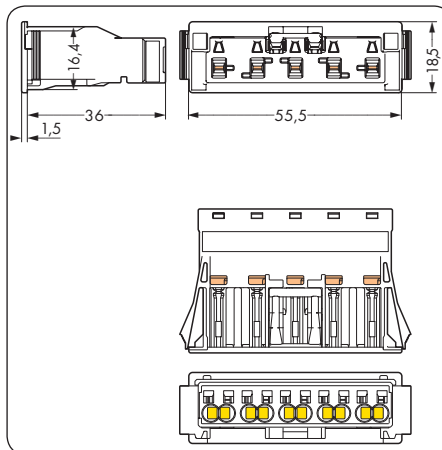




Description	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 5 poles, with CAGE CLAMP®S connection	Sockets		
	black	770-705 ●	100
	white	770-725 ○	100
	gray	770-745 ●	100
	blue	770-2105 ●	100
	red	770-2305 ●	100
	For "Clean Earth" applications (up to 32 A)		
	green	770-2325 ●	50

Accessories			
Lockout caps, for cut-out			
	black	770-645	100
	white	770-695	100
Lockout caps, for socket, separable, 12 poles			
	black	770-201	100
	white	770-221	100
Coding pin, for plug			
			

Info	Dimensions (in mm)
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- ① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"
 - ② Approval data can be found in the online catalog at www.wagocatalog.com
 - ③ Direct contact of the ground conductor on position PE1
- | | | | |
|---|-------|----------|-------------------|
| ● | black | Coding A | (N ⊕ L1 L2 L3) |
| ○ | white | Coding A | (N ⊕ L1 L2 L3) |
| ● | gray | Coding B | (1 2 3 4 5) |
| ● | blue | Coding I | (N ⊕ L DA- DA+) |
| ● | red | Coding P | (N ⊕ L1 L2 L3) |
| ● | green | Coding Q | (N PE1 PE2 PE3 L) |
- Please find some information on the different codings on pages 146 and 147



2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12
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Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Plugs			Plugs, with direct contacting of the ground conductor		
black	770-715	● 100	black	770-715/007-000	● 100
white	770-735	○ 100	white	770-735/007-000	○ 100
gray	770-755	● 100			
blue	770-2115	● 100	blue	770-2115/007-000	● 100
red	770-2315	● 100			
For "Clean Earth" applications (up to 32 A)			For "Clean Earth" applications (up to 32 A)		
green	770-2335	● 50	green	770-2335/007-000	● 50 ③
black	770-645	100	black	770-645	100
white	770-695	100	white	770-695	100
gray	770-401	100	gray	770-401	100

Direct contact of the earth conductor



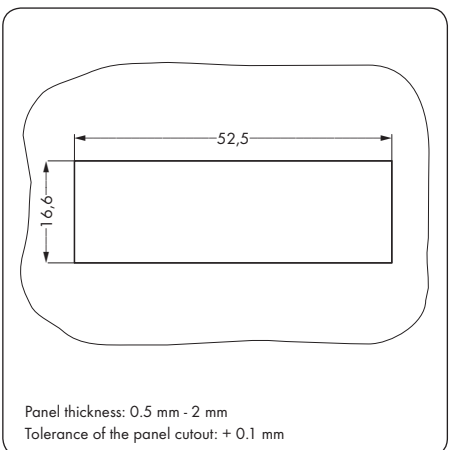
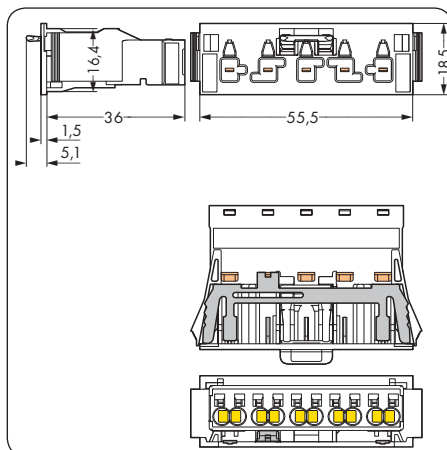
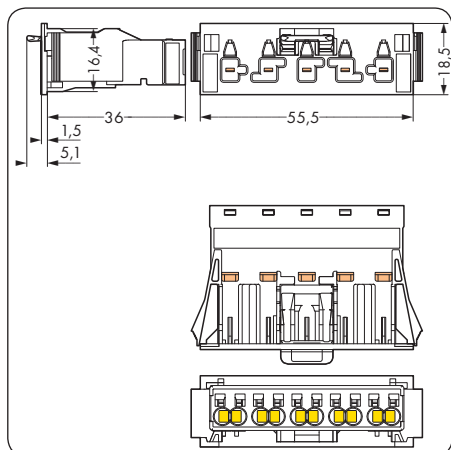
Varnish-piercing direct contacting of the earth conductor. ③

Lockout cap



Seal unused cutout with lockout cap.

Cut-out dimensions



	<p>400 V/6 kV/3 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 25 A ①</p> <p>② Approvals</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
PCB connectors, 5 poles 2 solder pins per pole	Sockets, straight type			Plugs, straight type		
	black	770-805 ●	50	black	770-815 ●	50
	white	770-825 ○	50	white	770-835 ○	50
	gray	770-845 ●	50	gray	770-855 ●	50
	blue	770-3105 ●	50	blue	770-3115 ●	50

Accessories						
Lockout caps, for socket, separable, 12 poles	black	770-201	100			
	white	770-221	100			
Coding pin, for plug				gray	770-401	100

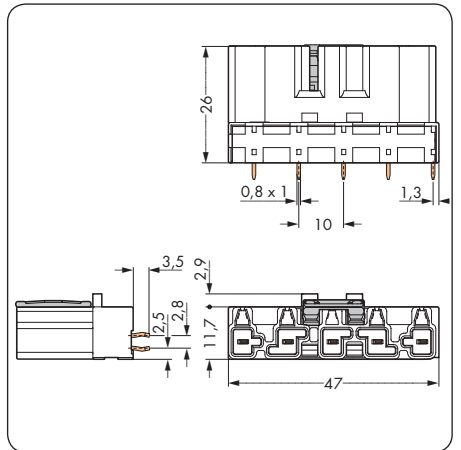
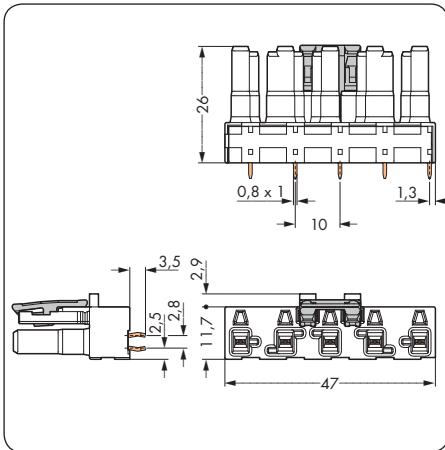
Info	Dimensions (in mm)
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① Current load see table on page 65

② Approval data can be found in the online catalog at www.wagocatalog.com

● black Coding A (N ⊕ L1 L2 L3)
○ white Coding A (N ⊕ L1 L2 L3)
● gray Coding B (1 2 3 4 5)
● blue Coding I (N ⊕ L DA- DA+)

Please find some information on the different codings on pages 146 and 147



400 V/6 kV/3 25 A ①	400 V/6 kV/3 25 A ①
② Approvals	② Approvals

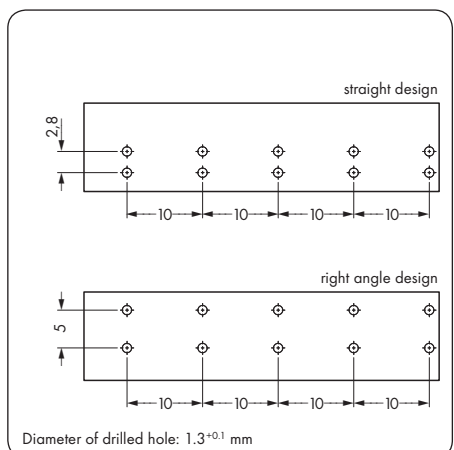
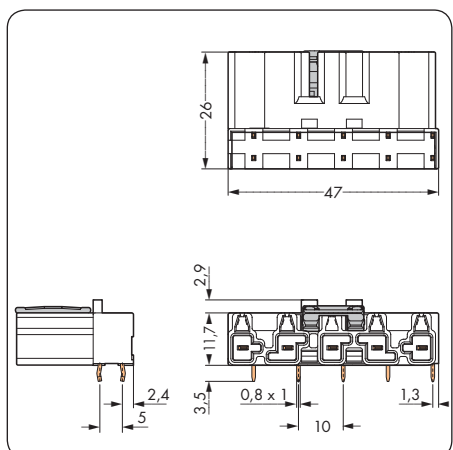
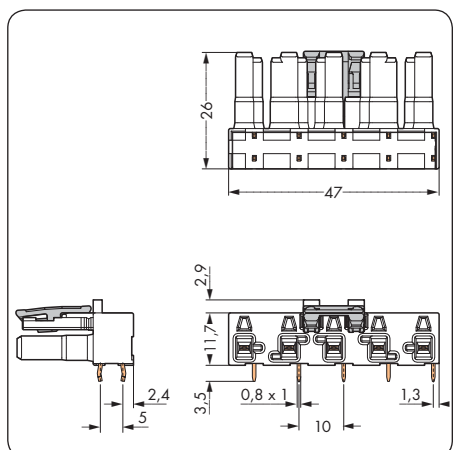


① Depends on the PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor cross section
16 A	70 µm one side	7 mm / 0.27 in	△1.5 mm ² / AWG 16
20 A	70 µm one side	7 mm / 0.27 in	△2.5 mm ² / AWG 14
25 A	105 µm both sides	7 mm / 0.27 in	△4 mm ² / AWG 12

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Sockets, angled type			Plugs, angled type		
black	770-805/011-000 ●	50	black	770-815/011-000 ●	50
white	770-825/011-000 ○	50	white	770-835/011-000 ○	50
gray	770-845/011-000 ●	50	gray	770-855/011-000 ●	50
blue	770-3105/011-000 ●	50	blue	770-3115/011-000 ●	50
black	770-201	100			
white	770-221	100			
			gray	770-401	100



Hole patterns



	<p>400 V/6 kV/3 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 400 V/6 kV/3 25 A</p> <p>① Approvals</p>
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Description	Color	Item no.	Pack-unit	Color	Item no.	Pack-unit
Intermediate couplers, 5 poles	Intermediate couplers, 1 x plug / 1 x socket			Intermediate couplers, 5 to 3 poles ②		
Intermediate couplers, 5 to 3 poles						
T-distribution connectors, 5 poles	black	770-605 ●	100	L1 – L	770-901 ●	100
Distribution connectors, 5 poles	white	770-655 ○	100	L1 – L	770-951 ○	100
	blue	770-619 ●	100			
				L2 – L	770-902 ●	100
				L2 – L	770-952 ○	100
				L3 – L	770-903 ●	100
				L3 – L	770-953 ○	100

Accessories						
<p>Mounting plates, for distribution connectors</p>  <p>Fixing pin, for mounting plates, 6.1 x 2.5 - 4 mm / 0.24 x 0.098 - 0.157 in</p>						
<p>Lockout caps, for socket, separable, 12 poles</p> 						
	black	770-201	100	black	770-201	100
	white	770-221	100	white	770-221	100

Info	Dimensions (in mm)
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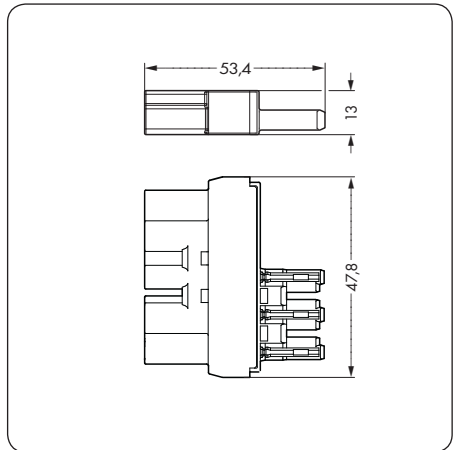
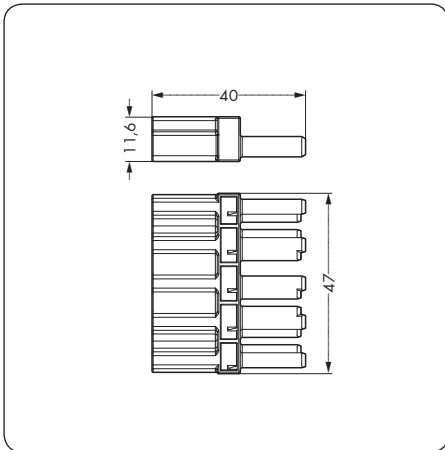


① Approval data can be found in the online catalog at www.wagocatalog.com

② One locking lever for each intermediate coupler included in the delivery

● black Coding A (N ⊕ L1 L2 L3)
○ white Coding A (N ⊕ L1 L2 L3)
● blue Coding I (N ⊕ L DA- DA+)

Please find some information on the different codings on pages 146 and 147

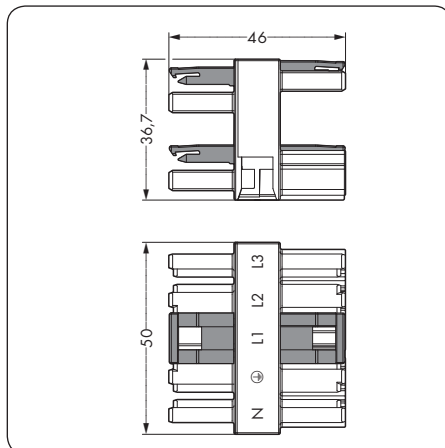
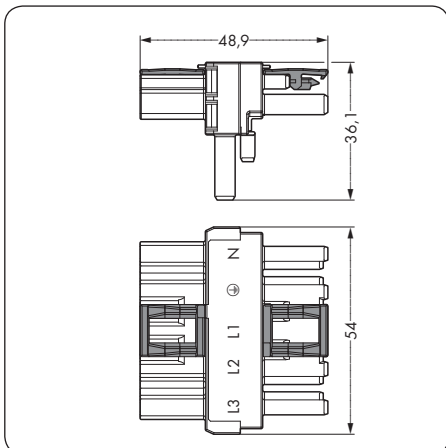
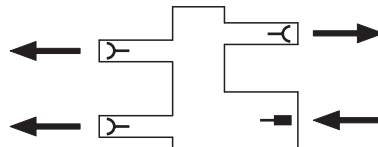
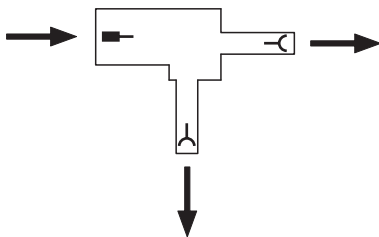


Distribution Connectors, 5 Poles

400 V/6 kV/3 25 A	400 V/6 kV/3 25 A
① Approvals	① Approvals



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
T-distribution connectors, 1 x plug / 2 x socket			Distribution connectors, 3-way, 5 poles, 1 x plug / 3 x socket		
black	770-621	● 50	black	770-609	● 25
white	770-671	○ 50	white	770-659	○ 25
blue	770-617	● 50			
for "flying leads", with 3rd locking lever					
black	770-622	● 50			
white	770-672	○ 50			
blue	770-620	● 50			
			black	770-625	25
			white	770-675	25
			black	770-601	250
black	770-201	100	black	770-201	100
white	770-221	100	white	770-221	100



Three-Phase to Single-Phase Distribution Connectors with Phase Selection, 5 Poles

250 V/4 kV/3
400 V/6 kV/3
25 A




① Approvals

Due to the diverse jumper positions, the user can choose from many different tapping options. The 3 fixed tap-offs (L1/L2/L3) as well as the freely selectable 4th tap-off provide for high flexibility before, during and after the installation.



Description	Color	Item no.	Pack.-unit
Three-phase to single-phase distribution connectors, 5 poles	Three-phase to single-phase distribution connectors ②		
	black	770-640 ●	10
	white	770-690 ○	10
	red	770-940 ●	10

Accessories

 Mounting plates, for distribution connectors	black	770-625	25
	white	770-675	25
 Fixing pin, for mounting plates, 6.1 x 2.5 - 4 mm / 0.24 x 0.098 - 0.157 in	black	770-601	250
	Lockout caps, for socket, separable, 12 poles		
	black	770-201	100
	white	770-221	100

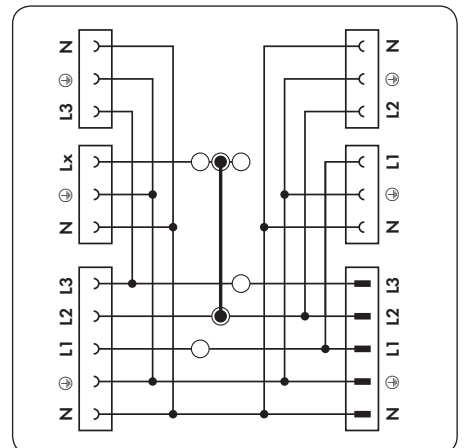
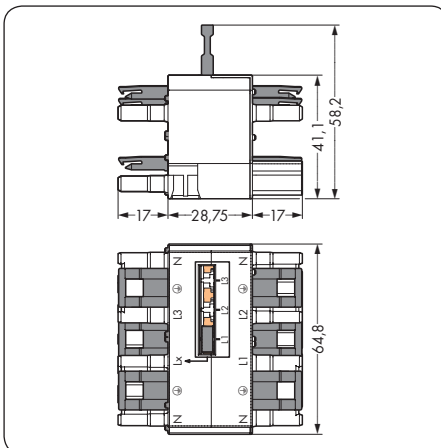
Info	Dimensions and internal circuit
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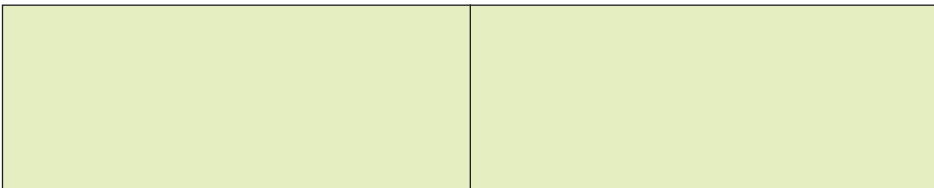
① Approval data can be found in the online catalog at www.wagocatalog.com

② Jumper position on delivery L2

- black Coding A (N ⊕ L1 L2 L3)
- white Coding A (N ⊕ L1 L2 L3)
- red Coding P (N ⊕ L1 L2 L3)

Please find some information on the different codings on pages 146 and 147





Use



Movable jumper.

2



Jumper pushed down, flush with the housing (position L1).



An additional h-distribution connector doubles L1. This results in the following connection options:
 L1/L1/L2/L2/L3 with jumper in position L2
 L1/L1/L2/L3/L3 with jumper in position L3



Additional h-distribution connectors double L1 and L3. This results in the following connection option:
 L1/L1/L2/L2/L3/L3 with jumper in position L2
 NOTICE: h-distribution connectors can only be plugged on L1 and L3!



<p>0.5 – 4 mm² ❶ 250 V/4 kV/3 400 V/6 kV/3 25 A 9 mm / 0.35 in</p>	<p>AWG 20 - 12</p>
<p>❷ Approvals</p>	



Lift jumper out of delivery position (L2) using a screwdriver and move it into the desired position.



Push down jumper in its new position (picture shows L3).



The 5-pole energy circuit can be extended using pluggable cable assemblies.



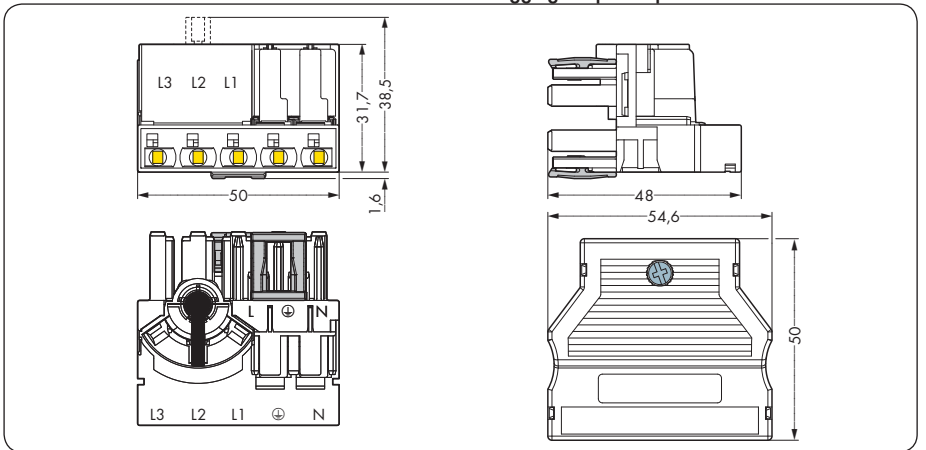
Plugging a 3-pole tap-off cable.


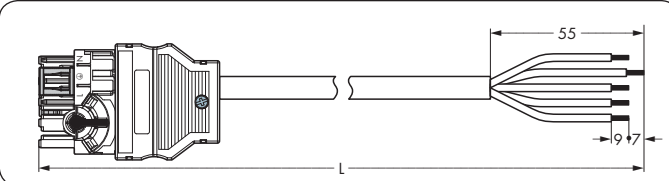

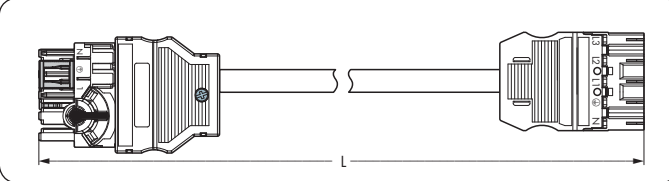





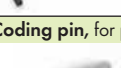

Description	Color	Item no.	Pack-unit
Distribution connectors with phase selection, with CAGE CLAMP®S connection,	Distribution connectors with phase selection, with strain relief housing		
Tap-off: Socket, 3 poles, N ⊕ L	Cable diameter 9 - 13 mm / 0.35 - 0.51 in ❸		
Through contact: Socket, 5 poles, N ⊕ L1 L2 L3	black	770-611 ●	10
	white	770-661 ○	10


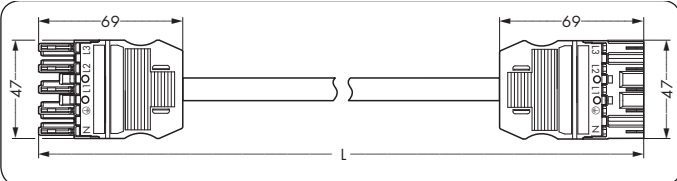

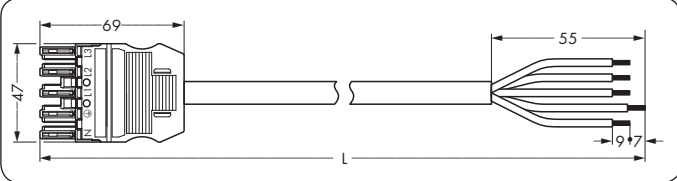

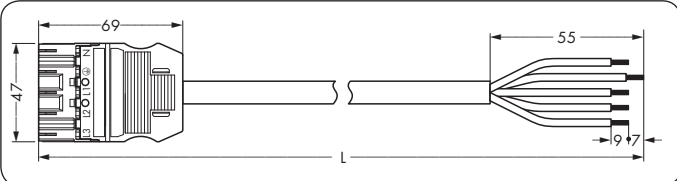
Accessories			
Mounting plates , for distribution connectors	black	770-625	25
	white	770-675	25
Fixing pin , for mounting plates, 6.1 x 2.5 - 4 mm / 0.24 x 0.098 - 0.157 in	black	770-601	250
Lockout caps , for socket, separable, 12 poles	black	770-201	100
	white	770-221	100


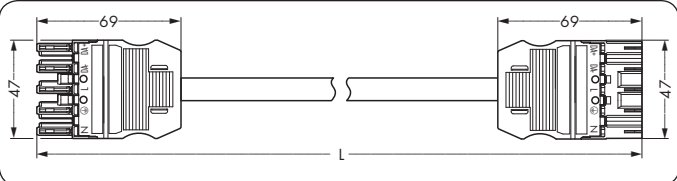

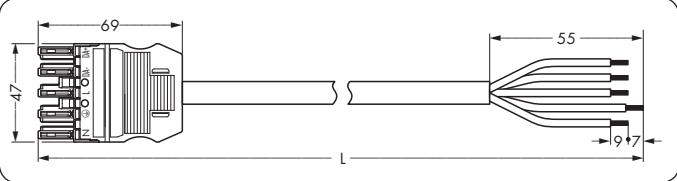

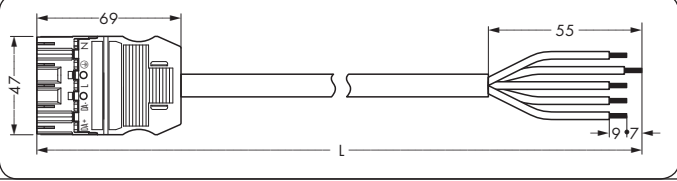




Info	Dimensions (in mm)
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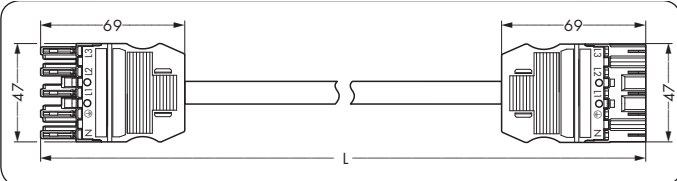

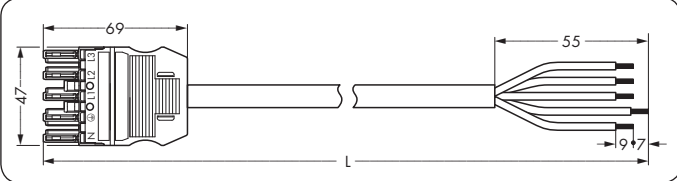

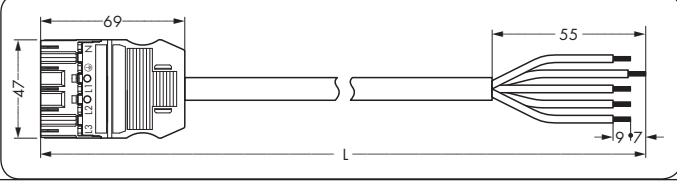





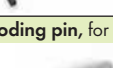

- ❶ Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"
 - ❷ Approval data can be found in the online catalog at www.wagocatalog.com
 - ❸ Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!
 - ❹ More strain relief housings see page 60
- black Coding A (N ⊕ L1 L2 L3)
 ○ white Coding A (N ⊕ L1 L2 L3)
- Please find some information on the different codings on pages 146 and 147


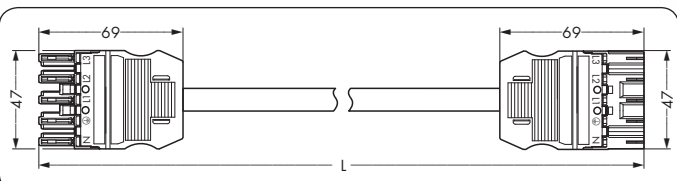

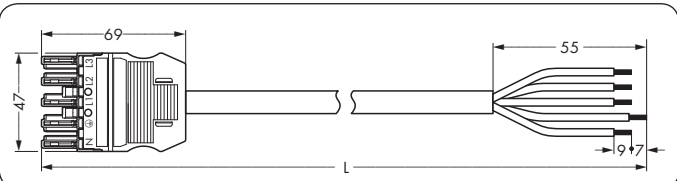

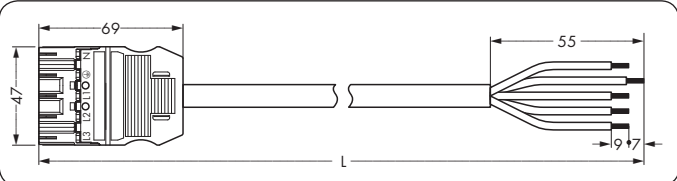



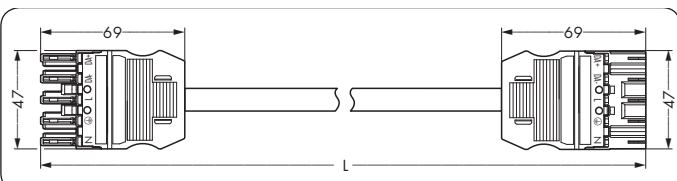

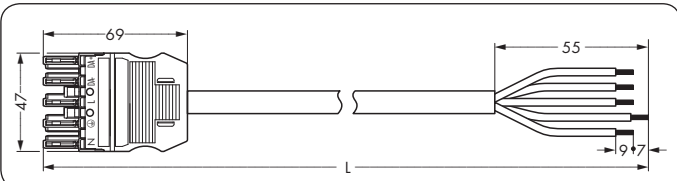

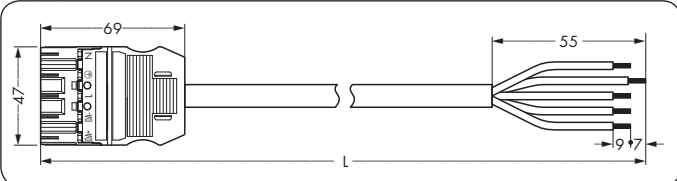
		PVC	H05VV-F 5G2.5			
		halogen-free	H05Z1Z1-F 5G2.5			
		250 V/4 kV/3	20 A			
		400 V/6 kV/3	20 A			
		Wire ends bonded 9 mm/0.35 in				
		Ⓢ Ⓢ Approvals				
Distribution connectors with phase selection - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
						
						
			PVC		halogen-free	
	1 m	771-8965/107-101	.../107-102	771-8965/117-101	.../117-102	
	2 m	771-8965/107-201	.../107-202	771-8965/117-201	.../117-202	
Distribution connectors with phase selection - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
						
						
			PVC		halogen-free	
	1 m	771-8965/007-101	.../007-102	771-8965/017-101	.../017-102	
	2 m	771-8965/007-201	.../007-202	771-8965/017-201	.../017-202	
Lengths	Pack.-unit	Accessories				
1 m	10	Locking levers, manually operated,				
2 m	10	for "flying leads"				
			black	770-101	100	(4 x 25)
			white	770-121	100	(4 x 25)
		Locking levers, tool operated,				
		for "flying leads"				
			black	770-111	100	(4 x 25)
			white	770-131	100	(4 x 25)
Other lengths on request		Lockout caps, for socket, separable, 12 poles				
			black	770-201	100	
			white	770-221	100	
		Coding pin, for plug				
			gray	770-401	100	


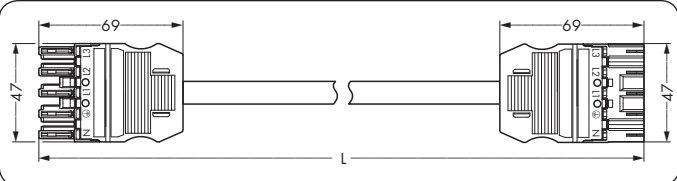

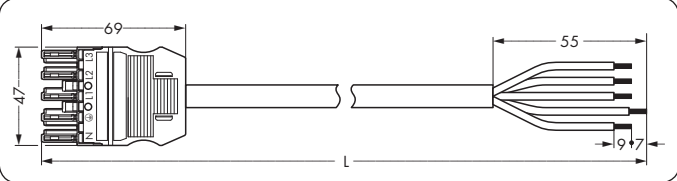

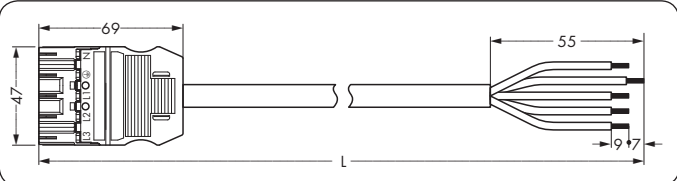
		PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5 400 V/6 kV/3 16 A Wire ends bonded 9 mm/0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9995/006-101	.../006-102	771-9995/016-101	.../016-102
		2 m	771-9995/006-201	.../006-202	771-9995/016-201	.../016-202
		3 m	771-9995/006-301	.../006-302	771-9995/016-301	.../016-302
		4 m	771-9995/006-401	.../006-402	771-9995/016-401	.../016-402
		5 m	771-9995/006-501	.../006-502	771-9995/016-501	.../016-502
		6 m	771-9995/006-601	.../006-602	771-9995/016-601	.../016-602
		7 m	771-9995/006-701	.../006-702	771-9995/016-701	.../016-702
		8 m	771-9995/006-801	.../006-802	771-9995/016-801	.../016-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9995/106-101	.../106-102	771-9995/116-101	.../116-102
		2 m	771-9995/106-201	.../106-202	771-9995/116-201	.../116-202
		3 m	771-9995/106-301	.../106-302	771-9995/116-301	.../116-302
		4 m	771-9995/106-401	.../106-402	771-9995/116-401	.../116-402
		5 m	771-9995/106-501	.../106-502	771-9995/116-501	.../116-502
		6 m	771-9995/106-601	.../106-602	771-9995/116-601	.../116-602
		7 m	771-9995/106-701	.../106-702	771-9995/116-701	.../116-702
		8 m	771-9995/106-801	.../106-802	771-9995/116-801	.../116-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	771-9995/206-101	.../206-102	771-9995/216-101	.../216-102
		2 m	771-9995/206-201	.../206-202	771-9995/216-201	.../216-202
		3 m	771-9995/206-301	.../206-302	771-9995/216-301	.../216-302
		4 m	771-9995/206-401	.../206-402	771-9995/216-401	.../216-402
		5 m	771-9995/206-501	.../206-502	771-9995/216-501	.../216-502
		6 m	771-9995/206-601	.../206-602	771-9995/216-601	.../216-602
		7 m	771-9995/206-701	.../206-702	771-9995/216-701	.../216-702
		8 m	771-9995/206-801	.../206-802	771-9995/216-801	.../216-802
Info		Locking levers, manually operated, for "flying leads" black 770-101 100 (4 x 25) white 770-121 100 (4 x 25)				
① Approval data can be found in the online catalog at www.wagocatalog.com Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications! Other cables on request ● black Coding A (N ⊕ L1 L2 L3) ○ white Coding A (N ⊕ L1 L2 L3) ● blue Coding I (N ⊕ L DA- DA+)		Locking levers, tool operated, for "flying leads" black 770-111 100 (4 x 25) white 770-131 100 (4 x 25)				
Please find some information on the different codings on pages 146 and 147		Lockout caps, for socket, separable, 12 poles black 770-201 100 white 770-221 100				
		Coding pin, for plug gray 770-401 100				

		PVC	H05VV-F 5G1.5	
		halogen-free	H05Z1Z1-F 5G1.5	
		400 V/6 kV/3 16 A		
		Wire ends bonded 9 mm/0.35 in		
		① Approvals		
Interconnecting cables, socket - plug		Length	Item no. black	Item no. black
		Coding I,	e.g., for dimming function (DALI)	
		PVC	halogen-free	
		1 m	771-9985/006-101	771-9985/016-101
		2 m	771-9985/006-201	771-9985/016-201
		3 m	771-9985/006-301	771-9985/016-301
		4 m	771-9985/006-401	771-9985/016-401
		5 m	771-9985/006-501	771-9985/016-501
		6 m	771-9985/006-601	771-9985/016-601
		7 m	771-9985/006-701	771-9985/016-701
		8 m	771-9985/006-801	771-9985/016-801
Connecting cables, socket - free end		Length	Item no. black	Item no. black
		Coding I,	e.g., for dimming function (DALI)	
		PVC	halogen-free	
		1 m	771-9985/106-101	771-9985/116-101
		2 m	771-9985/106-201	771-9985/116-201
		3 m	771-9985/106-301	771-9985/116-301
		4 m	771-9985/106-401	771-9985/116-401
		5 m	771-9985/106-501	771-9985/116-501
		6 m	771-9985/106-601	771-9985/116-601
		7 m	771-9985/106-701	771-9985/116-701
		8 m	771-9985/106-801	771-9985/116-801
Connecting cables, plug - free end		Length	Item no. black	Item no. black
		Coding I,	e.g., for dimming function (DALI)	
		PVC	halogen-free	
		1 m	771-9985/206-101	771-9985/216-101
		2 m	771-9985/206-201	771-9985/216-201
		3 m	771-9985/206-301	771-9985/216-301
		4 m	771-9985/206-401	771-9985/216-401
		5 m	771-9985/206-501	771-9985/216-501
		6 m	771-9985/206-601	771-9985/216-601
		7 m	771-9985/206-701	771-9985/216-701
		8 m	771-9985/206-801	771-9985/216-801
Lengths	Pack.-unit	Accessories		
1 m	50	Locking levers, manually operated,		
2, 3, 4 m	25	for "flying leads"		
5, 6 m	15		black	770-101 100 (4 x 25)
7, 8 m	10		white	770-121 100 (4 x 25)
Other lengths on request		Locking levers, tool operated,		
		for "flying leads"		
			black	770-111 100 (4 x 25)
			white	770-131 100 (4 x 25)
		Lockout caps, for socket, separable, 12 poles		
			black	770-201 100
			white	770-221 100
		Coding pin, for plug		
			gray	770-401 100

		PVC	H05VV-F 5G1.5
		halogen-free	H05Z1Z1-F 5G1.5
		400 V/6 kV/3 16 A	
		Wire ends bonded 9 mm/0.35 in	
		① Approvals	
Interconnecting cables, socket - plug	Length	Item no. black	Item no. black
	Coding P	●	
		PVC	halogen-free
			
			
	1 m	771-9975/006-101	771-9975/016-101
	2 m	771-9975/006-201	771-9975/016-201
	3 m	771-9975/006-301	771-9975/016-301
	4 m	771-9975/006-401	771-9975/016-401
	5 m	771-9975/006-501	771-9975/016-501
	6 m	771-9975/006-601	771-9975/016-601
	7 m	771-9975/006-701	771-9975/016-701
	8 m	771-9975/006-801	771-9975/016-801
Connecting cables, socket - free end	Length	Item no. black	Item no. black
	Coding P	●	
		PVC	halogen-free
			
			
	1 m	771-9975/106-101	771-9975/116-101
	2 m	771-9975/106-201	771-9975/116-201
	3 m	771-9975/106-301	771-9975/116-301
	4 m	771-9975/106-401	771-9975/116-401
	5 m	771-9975/106-501	771-9975/116-501
	6 m	771-9975/106-601	771-9975/116-601
	7 m	771-9975/106-701	771-9975/116-701
	8 m	771-9975/106-801	771-9975/116-801
Connecting cables, plug - free end	Length	Item no. black	Item no. black
	Coding P	●	
		PVC	halogen-free
			
			
	1 m	771-9975/206-101	771-9975/216-101
	2 m	771-9975/206-201	771-9975/216-201
	3 m	771-9975/206-301	771-9975/216-301
	4 m	771-9975/206-401	771-9975/216-401
	5 m	771-9975/206-501	771-9975/216-501
	6 m	771-9975/206-601	771-9975/216-601
	7 m	771-9975/206-701	771-9975/216-701
	8 m	771-9975/206-801	771-9975/216-801
Info	① Approval data can be found in the online catalog at www.wagocatalog.com		
	Other cables on request		
●	black	Coding A	(N ⊕ L1 L2 L3)
○	white	Coding A	(N ⊕ L1 L2 L3)
●	red	Coding P	(N ⊕ L1 L2 L3)
Please find some information on the different codings on pages 146 and 147			
Accessories			
Locking levers, manually operated, for "flying leads"			
	black	770-101	100 (4 x 25)
	white	770-121	100 (4 x 25)
Locking levers, tool operated, for "flying leads"			
	black	770-111	100 (4 x 25)
	white	770-131	100 (4 x 25)
Lockout caps, for socket, separable, 12 poles			
	black	770-201	100
	white	770-221	100
Coding pin, for plug			
	gray	770-401	100

		PVC	H05VV-F 5G2.5			
		halogen-free	H05Z1Z1-F 5G2.5			
		400 V/6 kV/3 20 A				
		Wire ends bonded 9 mm/0.35 in				
		① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC	halogen-free			
		1 m	771-9995/007-101	.../007-102	771-9995/017-101	.../017-102
		2 m	771-9995/007-201	.../007-202	771-9995/017-201	.../017-202
		3 m	771-9995/007-301	.../007-302	771-9995/017-301	.../017-302
		4 m	771-9995/007-401	.../007-402	771-9995/017-401	.../017-402
		5 m	771-9995/007-501	.../007-502	771-9995/017-501	.../017-502
		6 m	771-9995/007-601	.../007-602	771-9995/017-601	.../017-602
		7 m	771-9995/007-701	.../007-702	771-9995/017-701	.../017-702
		8 m	771-9995/007-801	.../007-802	771-9995/017-801	.../017-802
Connecting cables, socket - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC	halogen-free			
		1 m	771-9995/107-101	.../107-102	771-9995/117-101	.../117-102
		2 m	771-9995/107-201	.../107-202	771-9995/117-201	.../117-202
		3 m	771-9995/107-301	.../107-302	771-9995/117-301	.../117-302
		4 m	771-9995/107-401	.../107-402	771-9995/117-401	.../117-402
		5 m	771-9995/107-501	.../107-502	771-9995/117-501	.../117-502
		6 m	771-9995/107-601	.../107-602	771-9995/117-601	.../117-602
		7 m	771-9995/107-701	.../107-702	771-9995/117-701	.../117-702
		8 m	771-9995/107-801	.../107-802	771-9995/117-801	.../117-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○			
		PVC	halogen-free			
		1 m	771-9995/207-101	.../207-102	771-9995/217-101	.../217-102
		2 m	771-9995/207-201	.../207-202	771-9995/217-201	.../217-202
		3 m	771-9995/207-301	.../207-302	771-9995/217-301	.../217-302
		4 m	771-9995/207-401	.../207-402	771-9995/217-401	.../217-402
		5 m	771-9995/207-501	.../207-502	771-9995/217-501	.../217-502
		6 m	771-9995/207-601	.../207-602	771-9995/217-601	.../217-602
		7 m	771-9995/207-701	.../207-702	771-9995/217-701	.../217-702
		8 m	771-9995/207-801	.../207-802	771-9995/217-801	.../217-802
Lengths	Pack.-unit	Accessories				
1 m	50	Locking levers, manually operated,				
2, 3, 4 m	25	for "flying leads"				
5, 6 m	15	black 770-101 100 (4 x 25)				
7, 8 m	10	white 770-121 100 (4 x 25)				
Other lengths on request		Locking levers, tool operated,				
		for "flying leads"				
		black 770-111 100 (4 x 25)				
		white 770-131 100 (4 x 25)				
		Lockout caps, for socket, separable, 12 poles				
		black 770-201 100				
		white 770-221 100				
		Coding pin, for plug				
		gray 770-401 100				

		<p>PVC H05VV-F 5G2.5 halogen-free H05Z1Z1-F 5G2.5</p> <p>400 V/6 kV/3 20 A</p> <p>Wire ends bonded 9 mm/0.35 in</p> <p>① Approvals</p>																					
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<p>Info</p> <p>① Approval data can be found in the online catalog at www.wagocatalog.com</p> <p>Other cables on request</p> <p>● blue Coding I (N ⊕ L DA- DA+) ● red Coding P (N ⊕ L1 L2 L3)</p> <p>Please find some information on the different codings on pages 146 and 147</p>		<p>Accessories</p> <p>Locking levers, manually operated, for "flying leads"</p> <table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100 (4 x 25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100 (4 x 25)</td> </tr> </table> <p>Locking levers, tool operated, for "flying leads"</p> <table border="1"> <tr> <td>black</td> <td>770-111</td> <td>100 (4 x 25)</td> </tr> <tr> <td>white</td> <td>770-131</td> <td>100 (4 x 25)</td> </tr> </table> <p>Lockout caps, for socket, separable, 12 poles</p> <table border="1"> <tr> <td>black</td> <td>770-201</td> <td>100</td> </tr> <tr> <td>white</td> <td>770-221</td> <td>100</td> </tr> </table> <p>Coding pin, for plug</p> <table border="1"> <tr> <td>gray</td> <td>770-401</td> <td>100</td> </tr> </table>	black	770-101	100 (4 x 25)	white	770-121	100 (4 x 25)	black	770-111	100 (4 x 25)	white	770-131	100 (4 x 25)	black	770-201	100	white	770-221	100	gray	770-401	100
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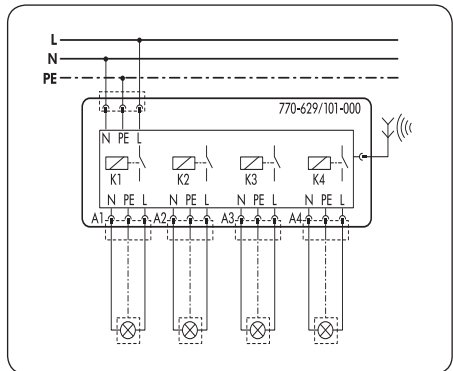
<p>Distribution box, wired Different versions see page 79</p>	<p>4-channel radio receiver with 4 make contacts</p> <p>2-channel radio receiver with outputs for blind control</p>	<p>Technical data</p>
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Description	Color	Item no.	Pack-unit	Technical data
Radio receivers	4-channel radio receiver			Voltage supply AC 230 V, 50 - 60 Hz
	black	770-629/101-000	1	Voltage range ± 10 %
				Current consumption (internal) max. 21 mA
				Max. total current 16 A (4-channel)
				Max. make current max. 8 A (2-channel)
				Switching frequency max. 5 Hz
	2-channel radio receiver			Isolation max. 120 A (4-channel)
	black	770-629/102-000	1	Max. make current 25 A (2-channel)
				Switching frequency max. 5 Hz
				Isolation Internal voltage supply, electrically isolated
				Fuse protection external, 16 A
				Ambient operating temperature 0°C ... + 55°C
				Type of mounting Screw fixing
				Degree of protection IP 20
				Fitting position any
				Standards/specifications Vibration and shock resistance according to IEC 60068-2-6 and IEC 60068-2-27

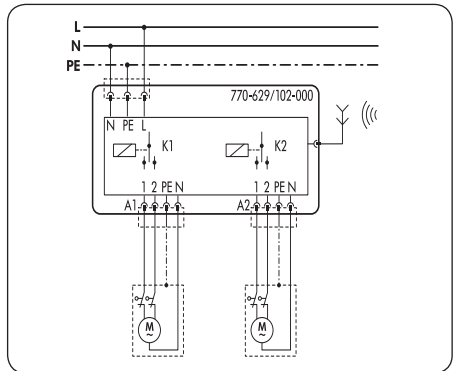
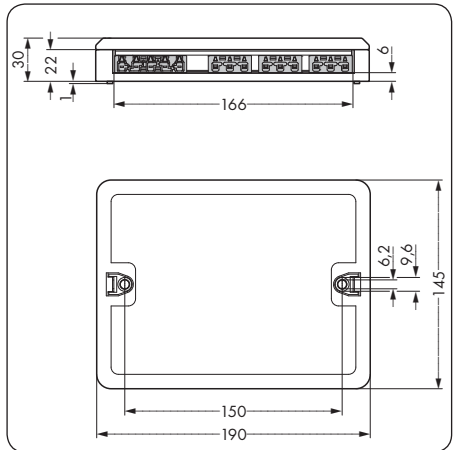
Accessories **Block diagrams**

RF magnetic antenna, with SMA plug,	
incl. 2.5m connecting cable	
	black 758-910 1

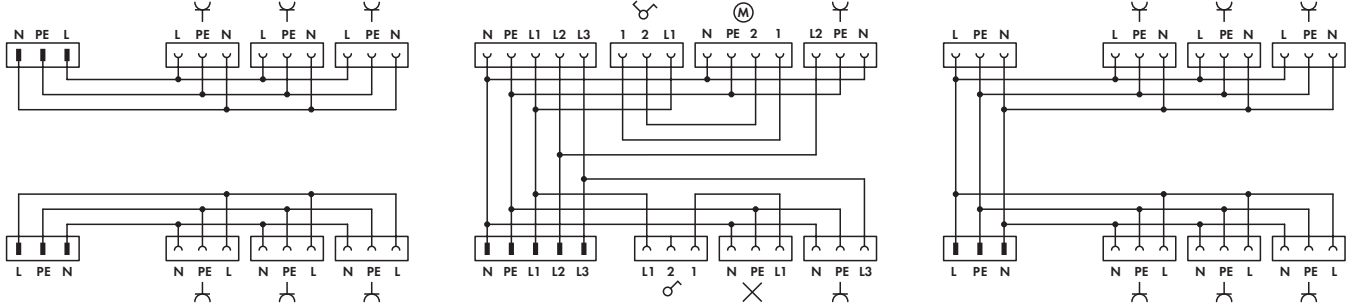


Info **Dimensions (in mm)**

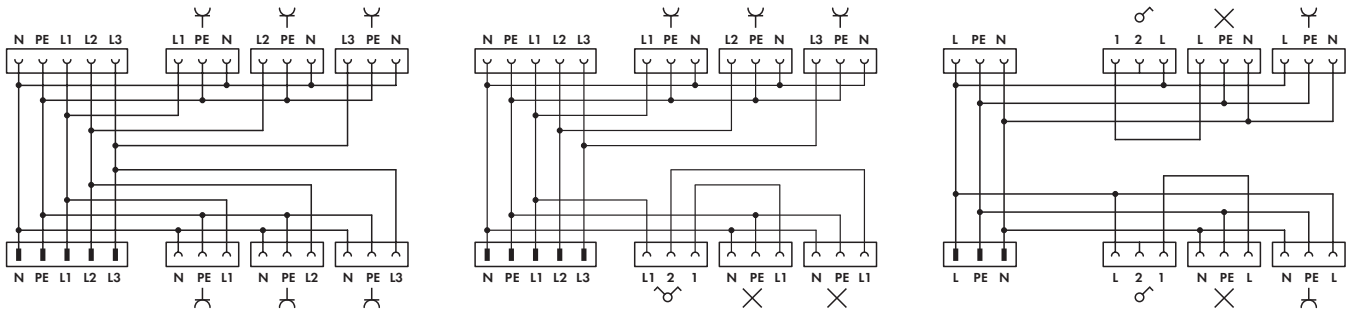
Please find additional information at www.wago.com



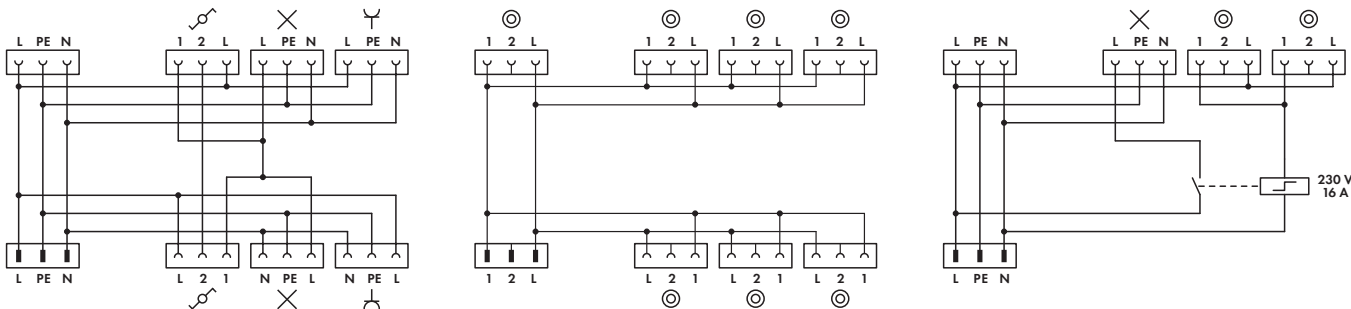
Internal wiring 4 mm ² /AWG 12 400 V / 6 kV / 3 5 poles 250 V / 4 kV / 3 3 poles 25 A	Internal wiring 4 mm ² /AWG 12 400 V / 6 kV / 3 5 poles 250 V / 4 kV / 3 3 poles 25 A	Internal wiring 2.5 mm ² (AWG 14) / 4 mm ² (AWG 12) 400 V / 6 kV / 3 5 poles 250 V / 4 kV / 3 3 poles max. 25 A, depends on the built-in appliance
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Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Distribution boxes, separate circuits			Distribution boxes, blind control, single-pole switch and distribution			Distribution boxes, 1-phase distribution		
black	770-631/106-000	1	black	770-631/107-000	1	black	770-631/104-000	1
white	770-681/106-000	1	white	770-681/107-000	1	white	770-681/104-000	1



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Distribution boxes, 3-phase/1-phase distribution			Distribution boxes, series circuits and distribution			Distribution boxes, single-pole switch and distribution		
black	770-631/100-000	1	black	770-631/109-000	1	black	770-631/110-000	1
white	770-681/100-000	1	white	770-681/109-000	1	white	770-681/110-000	1



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Distribution boxes, two-way circuit and distribution			Distribution boxes, push button version			Distribution boxes, surge switch circuit		
black	770-631/111-000	1	black	770-631/112-000	1	black	770-632/138-000	1
white	770-681/111-000	1	white	770-681/112-000	1	white	770-682/138-000	1

Other circuits available upon request

Strain Relief Housings, 6 Poles

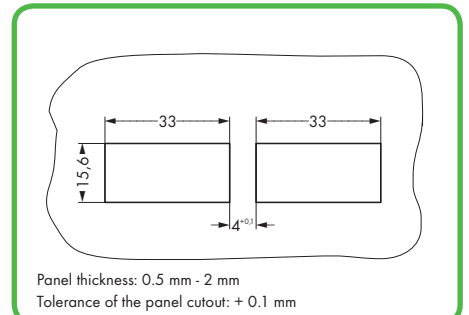
Snap-on type strain relief housings for

- two 3-pole sockets
- two 3-pole plugs
- 3-pole socket and 3-pole plug



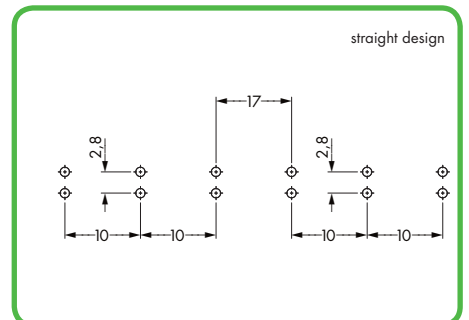
Application example of a 6-pole connector.

Description	Color	Item no.	Pack-unit
Strain relief housings	Strain relief housings, for 2 cables, diameter 8.5 - 13,5 mm / 0.33 - 0.53 in ①		
	black	770-506/029-000	50
	white	770-516/029-000	50



If the 6-pole strain relief housing is used with snap-in connectors, the sheet cutouts have to be made as described above.

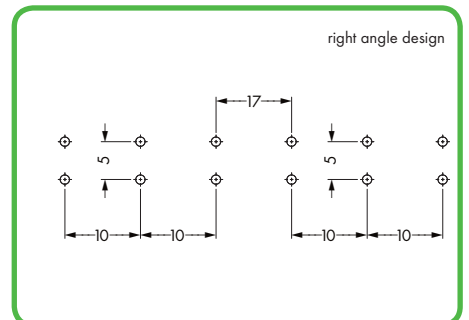
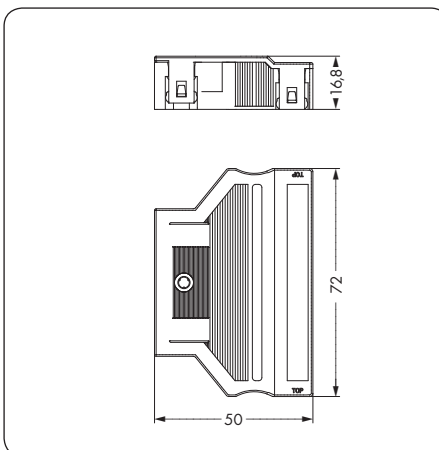
Accessories			
Marker strips, self-adhesive, on DIN A 1 card, strip length 182 mm / 7.16 in	6 mm / 0.23 in high Size of the marker field 62 x 6.5 mm / 2.44 x 0.25 in	210-333	100



When using a 6-pole PCB connector, straight type, observe the above hole patterns.

Info	Dimensions (in mm)
------	--------------------

① For H05VV and NYM cables
Other cables on request



When using a 6-pole PCB connector, angled type, observe the above hole patterns.

3

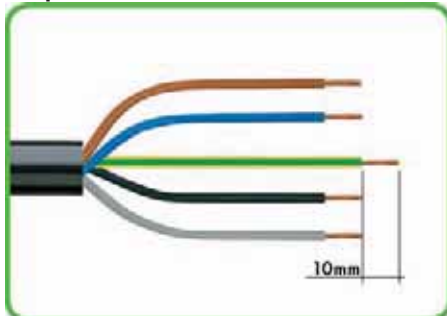


831 Series
Socket, 5 poles
Plug, 5 poles

84
84

Handling WINSTA® MAXI 831 Series

Preparation



The following lengths are recommended:

1. Strip length, outer insulation = 80 mm/3.15 in
2. Strip length = 13 mm/0.51 in
3. PE conductor protruding = 10 mm/0.32 in

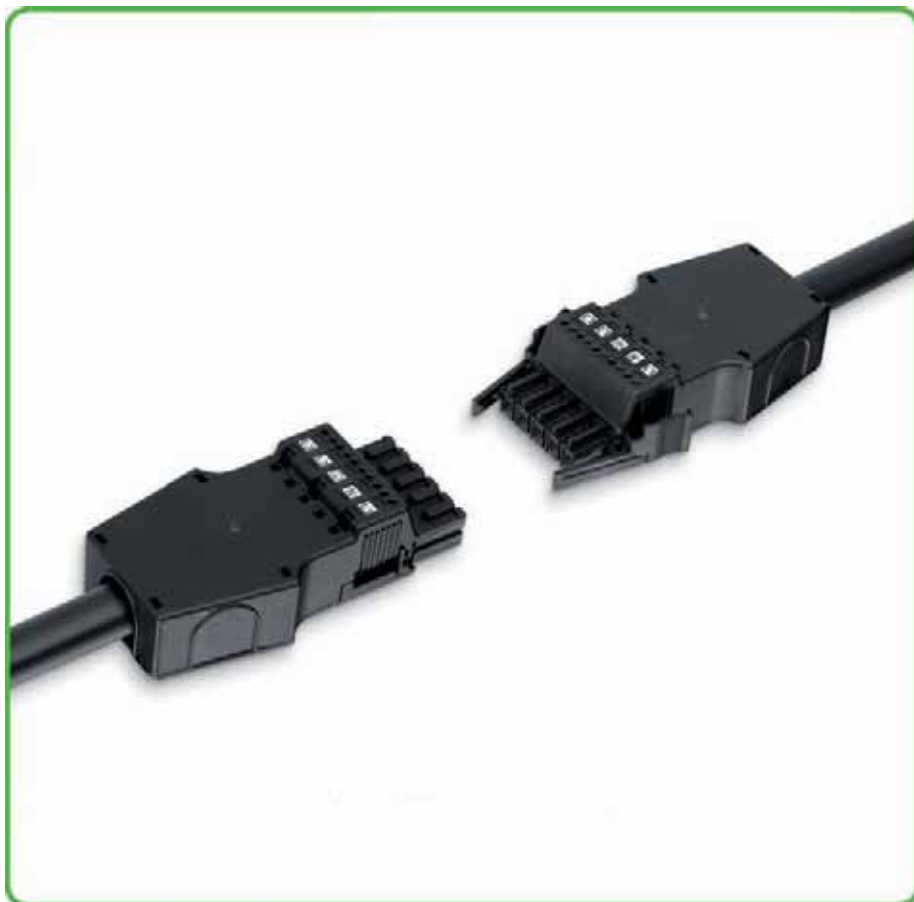


Actuate the clamp using a screwdriver (blade width 5.5) to connect flexible conductors and insert the stripped conductor up to the stop.

Strain relief mounting



Unscrew strain relief from the lower part of the housing . . .



. . . and snap wired connector onto the lower part.



Tighten strain relief with screwdriver.

Strain relief mounting



Wired connector with lower part of the strain relief housing.





Latch the top of the strain relief housing.

Marking



The printed marking of the connector is clearly visible in the opening of the strain relief housing.

0.5 – 6 mm ² ① 400 V/6 kV/3 32 A  13 mm / 0.51 in ② Approvals	AWG 20 - 10	0.5 – 6 mm ² ① 400 V/6 kV/3 32 A  13 mm / 0.51 in ② Approvals	AWG 20 - 10
---	-------------	---	-------------



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, 5 poles, with CAGE CLAMP®S connection	Socket with strain relief housing and locking levers, for 1 cable, diameter 13 - 18 mm / 0.51 - 0.70 in ③			Plug with strain relief housing, for 1 cable, diameter 13 - 18 mm / 0.51 - 0.70 in ③		
	black	831-3105/019-004 ●	5	black	831-3205/020-004 ●	5
	white	831-3105/019-050 ○	5	white	831-3205/020-050 ○	5

Info	Dimensions (in mm)
------	--------------------

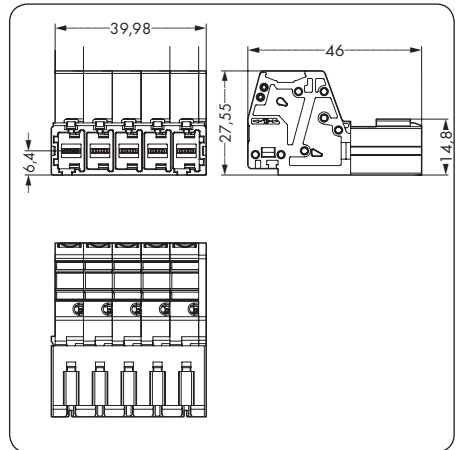
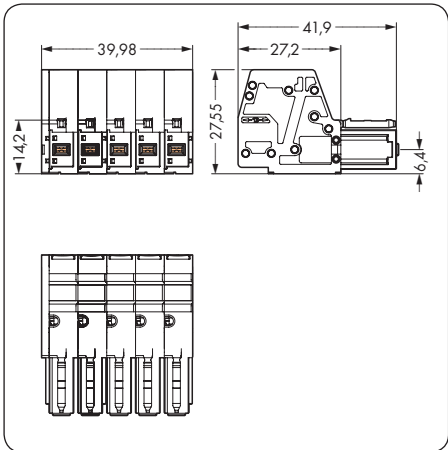
① Wire range: 0.5 - 6 mm² "s + f-st"
0.5 - 4 mm² "stranded"

② Approval data can be found in the online catalog at www.wagocatalog.com

③ For H05VV and NYM cables
Other cables on request

● black Coding A (L1 N ⊕ L2 L3)
○ white Coding A (L1 N ⊕ L2 L3)

Please find some information on the different codings on the pages 146 and 147



WINSTA® MAXI

for Use in Distribution Boxes
(custom versions on request)



WINSTA®- The perfect connection!

4



774 Series
Cable Assemblies 3 x 1.5 mm²/AWG 16
Cable Assemblies 3 x 2.5 mm²/AWG 14

88
89



774 Series
Cable Assemblies 4 x 1.5 mm²/AWG 16

90



WINSTA® - The perfect connection!

	<p>PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5</p> <p>250 V/4 kV/3 16 A</p> <p>Wire ends bonded 9 mm / 0.35 in</p> <p>① Approvals</p>
--	--

Interconnecting cables, socket with LL ② - plug

Technical drawing showing dimensions: 63mm total length, 17.5mm socket height, 62mm plug length, and 17.5mm plug height. Total length is denoted as L.

Connecting cables, socket with LL ② - free end

Technical drawing showing dimensions: 63mm total length, 17.5mm socket height, 55mm free end length, 9mm wire diameter, and 7mm wire diameter. Total length is denoted as L.

Connecting cables, plug - free end

Technical drawing showing dimensions: 62mm total length, 17.5mm plug height, 55mm free end length, 9mm wire diameter, and 7mm wire diameter. Total length is denoted as L.

Info

① Approval data can be found in the online catalog at www.wagocatalog.com


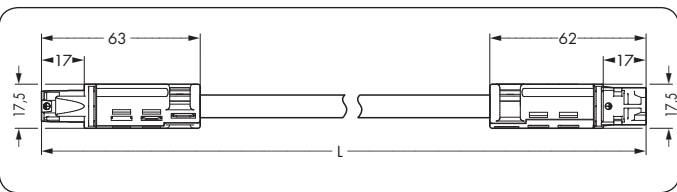

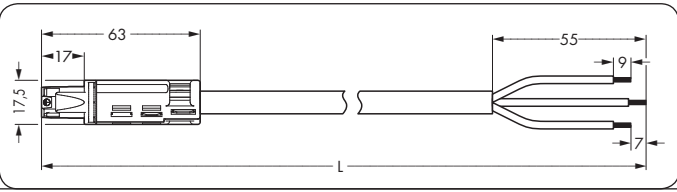

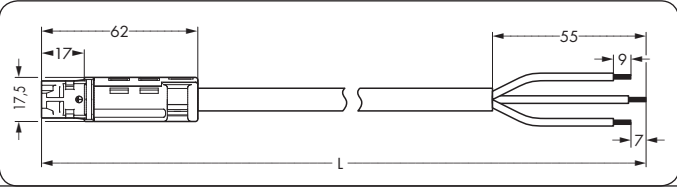
② LL = Locking lever


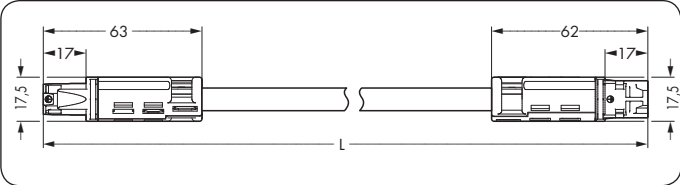

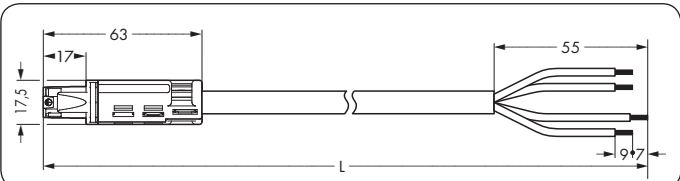

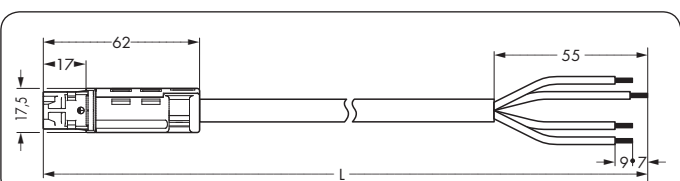
Other cables on request

● black Coding A (L ⊕ N)
○ white Coding A (L ⊕ N)

Please find some information on the different codings on pages 146 and 147

Length	Item no. black	Item no. white	Item no. black	Item no. white
Coding A ● ○				
PVC		halogen-free		
1 m	774-9993/006-101	.../006-102	774-9993/016-101	.../016-102
2 m	774-9993/006-201	.../006-202	774-9993/016-201	.../016-202
3 m	774-9993/006-301	.../006-302	774-9993/016-301	.../016-302
4 m	774-9993/006-401	.../006-402	774-9993/016-401	.../016-402
5 m	774-9993/006-501	.../006-502	774-9993/016-501	.../016-502
6 m	774-9993/006-601	.../006-602	774-9993/016-601	.../016-602
7 m	774-9993/006-701	.../006-702	774-9993/016-701	.../016-702
8 m	774-9993/006-801	.../006-802	774-9993/016-801	.../016-802
Length	Item no. black	Item no. white	Item no. black	Item no. white
Coding A ● ○				
PVC		halogen-free		
1 m	774-9993/106-101	.../106-102	774-9993/116-101	.../116-102
2 m	774-9993/106-201	.../106-202	774-9993/116-201	.../116-202
3 m	774-9993/106-301	.../106-302	774-9993/116-301	.../116-302
4 m	774-9993/106-401	.../106-402	774-9993/116-401	.../116-402
5 m	774-9993/106-501	.../106-502	774-9993/116-501	.../116-502
6 m	774-9993/106-601	.../106-602	774-9993/116-601	.../116-602
7 m	774-9993/106-701	.../106-702	774-9993/116-701	.../116-702
8 m	774-9993/106-801	.../106-802	774-9993/116-801	.../116-802
Length	Item no. black	Item no. white	Item no. black	Item no. white
Coding A ● ○				
PVC		halogen-free		
1 m	774-9993/206-101	.../206-102	774-9993/216-101	.../216-102
2 m	774-9993/206-201	.../206-202	774-9993/216-201	.../216-202
3 m	774-9993/206-301	.../206-302	774-9993/216-301	.../216-302
4 m	774-9993/206-401	.../206-402	774-9993/216-401	.../216-402
5 m	774-9993/206-501	.../206-502	774-9993/216-501	.../216-502
6 m	774-9993/206-601	.../206-602	774-9993/216-601	.../216-602
7 m	774-9993/206-701	.../206-702	774-9993/216-701	.../216-702
8 m	774-9993/206-801	.../206-802	774-9993/216-801	.../216-802

		PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5 250 V/4 kV/3 20 A Wire ends bonded 9 mm / 0.35 in ① Approvals				
Interconnecting cables, socket with LL Ⓣ - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9993/007-101	.../007-102	774-9993/017-101	.../017-102
		2 m	774-9993/007-201	.../007-202	774-9993/017-201	.../017-202
		3 m	774-9993/007-301	.../007-302	774-9993/017-301	.../017-302
		4 m	774-9993/007-401	.../007-402	774-9993/017-401	.../017-402
		5 m	774-9993/007-501	.../007-502	774-9993/017-501	.../017-502
		6 m	774-9993/007-601	.../007-602	774-9993/017-601	.../017-602
		7 m	774-9993/007-701	.../007-702	774-9993/017-701	.../017-702
		8 m	774-9993/007-801	.../007-802	774-9993/017-801	.../017-802
Connecting cables, socket with LL Ⓣ - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9993/107-101	.../107-102	774-9993/117-101	.../117-102
		2 m	774-9993/107-201	.../107-202	774-9993/117-201	.../117-202
		3 m	774-9993/107-301	.../107-302	774-9993/117-301	.../117-302
		4 m	774-9993/107-401	.../107-402	774-9993/117-401	.../117-402
		5 m	774-9993/107-501	.../107-502	774-9993/117-501	.../117-502
		6 m	774-9993/107-601	.../107-602	774-9993/117-601	.../117-602
		7 m	774-9993/107-701	.../107-702	774-9993/117-701	.../117-702
		8 m	774-9993/107-801	.../107-802	774-9993/117-801	.../117-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9993/207-101	.../207-102	774-9993/217-101	.../217-102
		2 m	774-9993/207-201	.../207-202	774-9993/217-201	.../217-202
		3 m	774-9993/207-301	.../207-302	774-9993/217-301	.../217-302
		4 m	774-9993/207-401	.../207-402	774-9993/217-401	.../217-402
		5 m	774-9993/207-501	.../207-502	774-9993/217-501	.../217-502
		6 m	774-9993/207-601	.../207-602	774-9993/217-601	.../217-602
		7 m	774-9993/207-701	.../207-702	774-9993/217-701	.../217-702
		8 m	774-9993/207-801	.../207-802	774-9993/217-801	.../217-802
Lengths	Pack.-unit					
1 m	50					
2, 3, 4 m	25					
5, 6 m	15					
7, 8 m	10					
Other lengths on request						

		PVC H05VV-F 4G1.5 halogen-free H05Z1Z1-F 4G1.5 250 V/4 kV/3 16 A Wire ends bonded 9 mm / 0.35 in ① Approvals				
Interconnecting cables, socket with LL ② - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9994/006-101	.../006-102	774-9994/016-101	.../016-102
		2 m	774-9994/006-201	.../006-202	774-9994/016-201	.../016-202
		3 m	774-9994/006-301	.../006-302	774-9994/016-301	.../016-302
		4 m	774-9994/006-401	.../006-402	774-9994/016-401	.../016-402
		5 m	774-9994/006-501	.../006-502	774-9994/016-501	.../016-502
		6 m	774-9994/006-601	.../006-602	774-9994/016-601	.../016-602
		7 m	774-9994/006-701	.../006-702	774-9994/016-701	.../016-702
		8 m	774-9994/006-801	.../006-802	774-9994/016-801	.../016-802
Connecting cables, socket with LL ② - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9994/106-101	.../106-102	774-9994/116-101	.../116-102
		2 m	774-9994/106-201	.../106-202	774-9994/116-201	.../116-202
		3 m	774-9994/106-301	.../106-302	774-9994/116-301	.../116-302
		4 m	774-9994/106-401	.../106-402	774-9994/116-401	.../116-402
		5 m	774-9994/106-501	.../106-502	774-9994/116-501	.../116-502
		6 m	774-9994/106-601	.../106-602	774-9994/116-601	.../116-602
		7 m	774-9994/106-701	.../106-702	774-9994/116-701	.../116-702
		8 m	774-9994/106-801	.../106-802	774-9994/116-801	.../116-802
Connecting cables, plug - free end		Length	Item no. black	Item no. white	Item no. black	Item no. white
		Coding A	● ○		PVC halogen-free	
		1 m	774-9994/206-101	.../206-102	774-9994/216-101	.../216-102
		2 m	774-9994/206-201	.../206-202	774-9994/216-201	.../216-202
		3 m	774-9994/206-301	.../206-302	774-9994/216-301	.../216-302
		4 m	774-9994/206-401	.../206-402	774-9994/216-401	.../216-402
		5 m	774-9994/206-501	.../206-502	774-9994/216-501	.../216-502
		6 m	774-9994/206-601	.../206-602	774-9994/216-601	.../216-602
		7 m	774-9994/206-701	.../206-702	774-9994/216-701	.../216-702
		8 m	774-9994/206-801	.../206-802	774-9994/216-801	.../216-802
Info		Lengths		Pack.-unit		
① Approval data can be found in the online catalog at www.wagocatalog.com ② LL = Locking lever Other cables on request ● black Coding A (N ⊕ 2 1) ○ white Coding A (N ⊕ 2 1) Please find some information on the different codings on pages 146 and 147		1 m		50		
		2, 3, 4 m		25		
		5, 6 m		15		
		7, 8 m		10		
		Other lengths on request				



5



893 Series
Connectors, 2 Poles

94 – 95



893 Series
Snap-In Device Connectors, 2 Poles

96



893 Series
T-Distribution Connectors

98 – 99

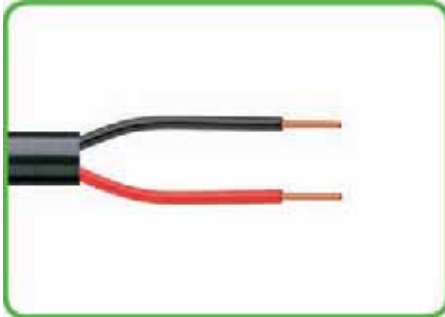


894 Series
Cable Assemblies 2 x Ø 0.8 mm / 0.031 in

100 – 101

Handling WINSTA® KNX 893 Series

Preparation

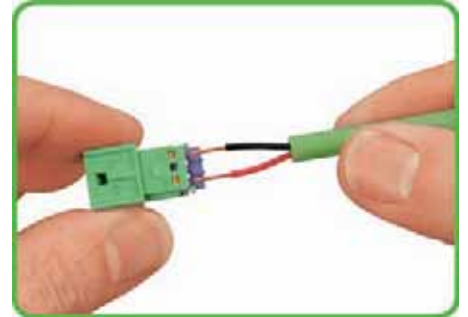


- 1. Strip length, outer insulation = 23 mm / 0.9 in
- 2. Strip length = 9 mm / 0.35 in

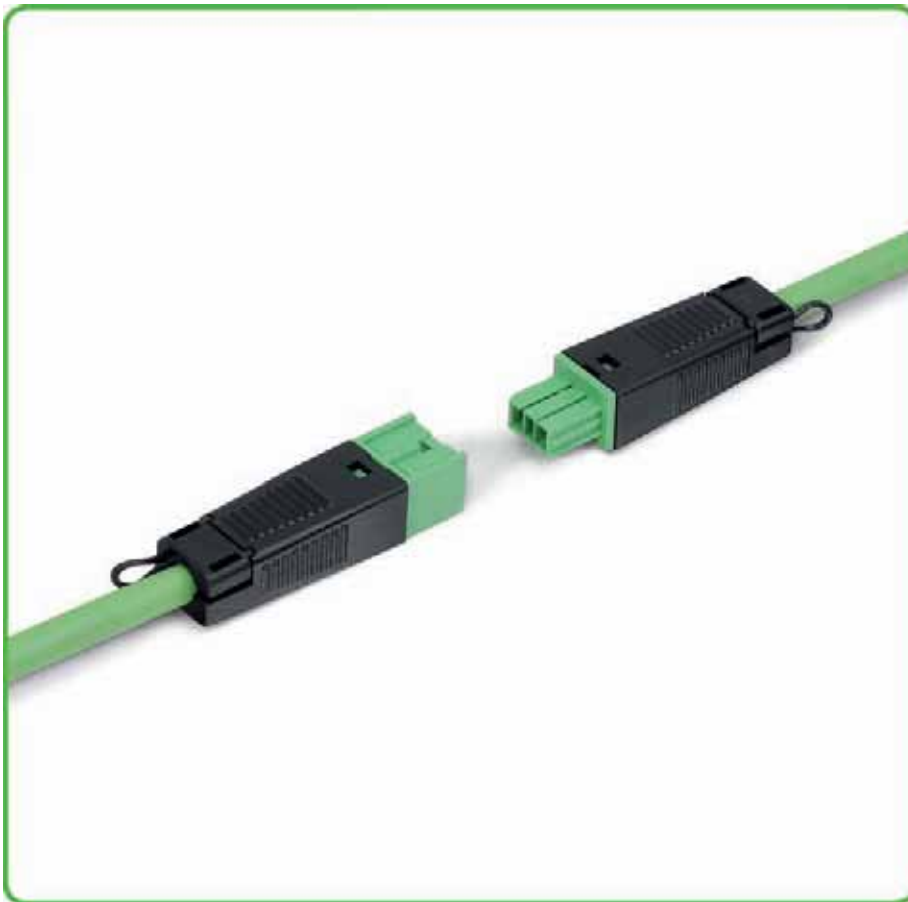
Conductor connection



Prior to conductor connection, slide the strain relief housing over the cable.



Insert stripped wire directly into the conductor entry ...



... and push it in up to the stop.



To disconnect, open the clamping springs with the orange actuator and pull off the conductors.

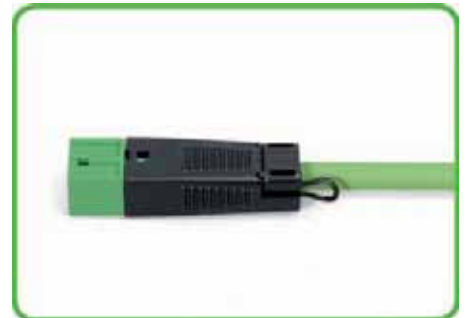
Strain relief assembly





Snap wired connector into the strain relief housing.



Press strain relief firmly on the cable.



Pre-assembled KNX connector

	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>
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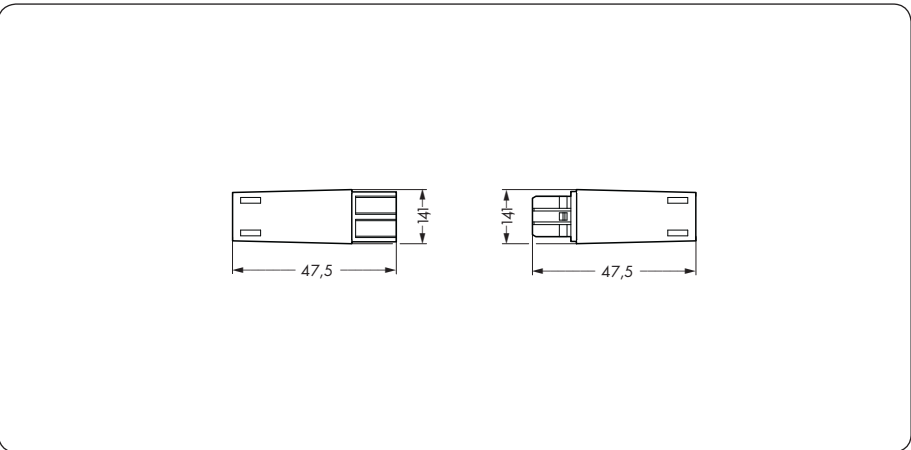
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, 2 poles, with spring-clamp connection	Socket with strain relief housing, cable diameter 5 - 7 mm / 0.19 - 0.27 in			Plug with strain relief housing, cable diameter 5 - 7 mm / 0.19 - 0.27 in		
	green	893-1002 ●	50	green	893-1012 ●	50

Info	Dimensions (in mm)
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

① Approval data can be found in the online catalog at www.wagocatalog.com

● green Coding E (1+ 2-)
○ light gray Coding F (1+ 2-)

Please find some information on the different codings on pages 146 and 147



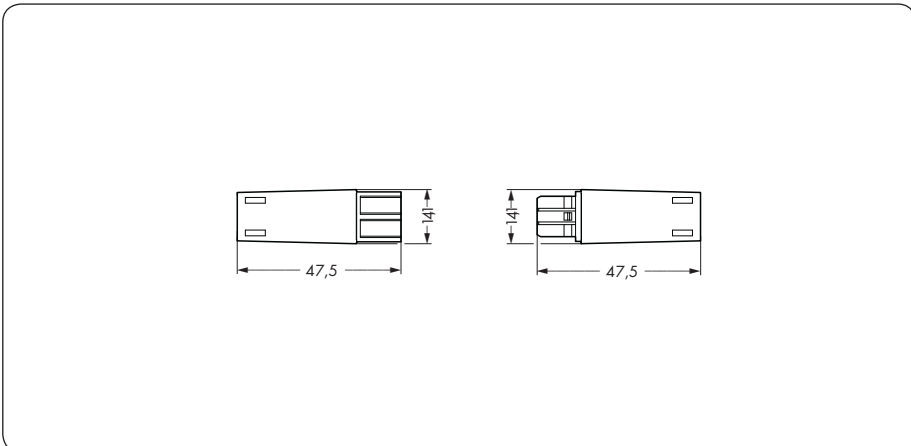
Sockets and Plugs, 2 Poles, with Special Coding



<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>🔧 Approvals</p>	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>🔧 Approvals</p>
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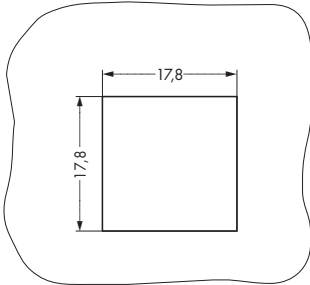


Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Socket with strain relief housing, cable diameter 5 - 7 mm / 0.19 - 0.27 in			Plug with strain relief housing, cable diameter 5 - 7 mm / 0.19 - 0.27 in		
light gray	893-1022 ○	50	light gray	893-1032 ○	50

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<p>Cut-out dimensions</p> <p>Sheet thickness: 0.5 mm to 2 mm (0.02-0.078 in) Tolerance of the cut-out: + 0.1 mm/0.0039 in</p>	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>❶ Approvals</p>	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>❶ Approvals</p>
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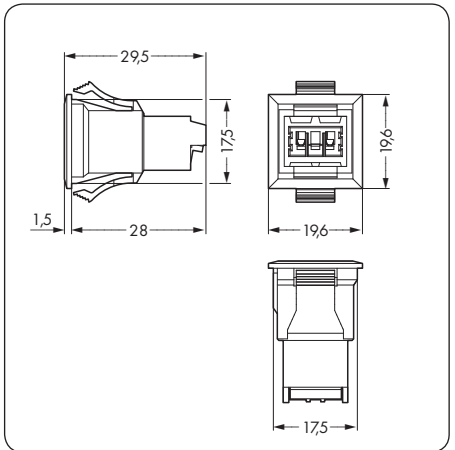
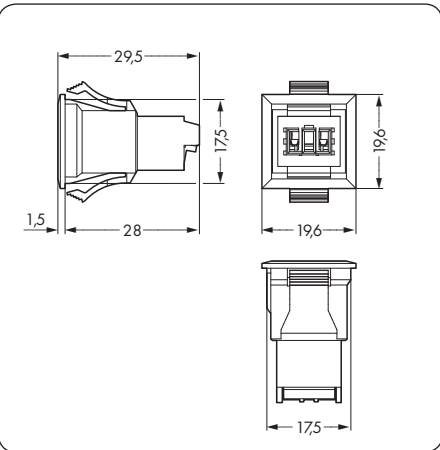
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Snap-in connectors, 2 poles, with spring-clamp connection	Socket, for KNX applications			Plug, for KNX applications		
	green	893-2002 ●	50	green	893-2012 ●	50

Info	Dimensions (in mm)
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

❶ Approval data can be found in the online catalog at www.wagocatalog.com

● green Coding E (1+ 2-)
● light gray Coding F (1+ 2-)

Please find some information on the different codings on pages 146 and 147



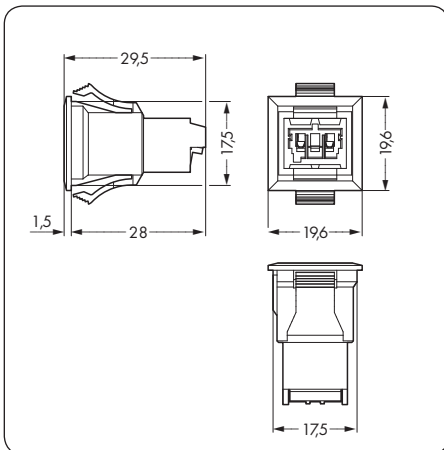
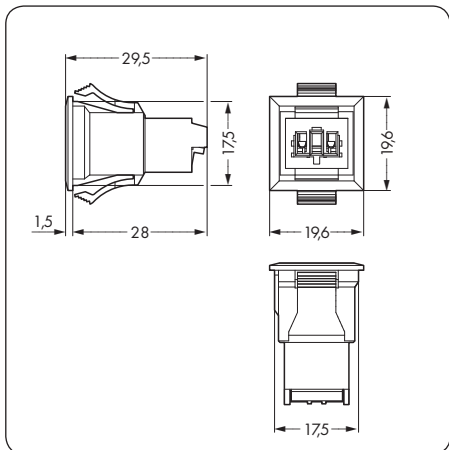
Snap-In Sockets and Plugs, 2 Poles, with Special Coding

<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>1 Approvals</p>	<p>Ø 0.8 mm / 0.031 in 50 V/0.8 kV/3 3 A</p> <p> 9 mm / 0.35 in</p> <p>1 Approvals</p>
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Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Socket, with special coding			Plug, with special coding		
light gray	893-2022	○ 50	light gray	893-2032	○ 50

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50 V/0.8 kV/3
3 A

① Approvals



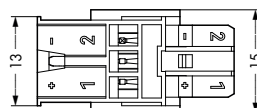
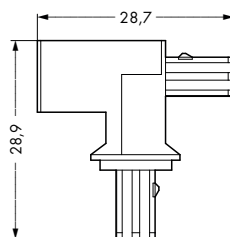
Description	Color	Item no.	Pack.-unit
T-distribution connector, 2 poles, pluggable	T-distribution connector, 1 x plug / 2 x socket, for KNX applications		
	green	893-1606 ●	25

Info	Dimensions (in mm)
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① Approval data can be found in the online catalog at www.wagocatalog.com

● green Coding E (1+ 2-)
● light gray Coding F (1+ 2-)

Please find some information on the different codings on pages 146 and 147



T-Distribution Connector, 2 Poles, with Special Coding

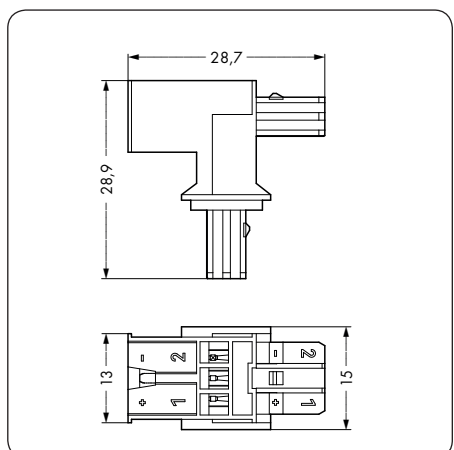
50 V/0.8 kV/3 3 A ① Approvals	
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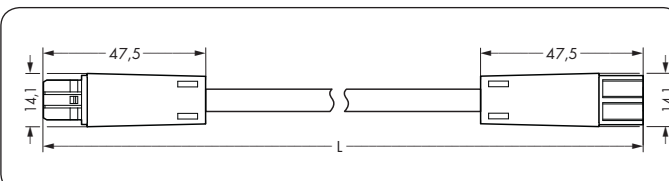

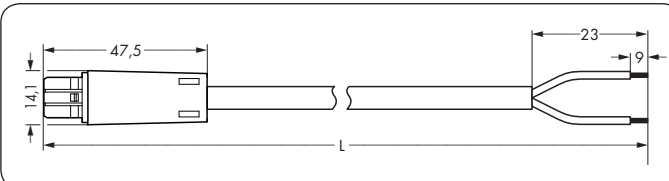

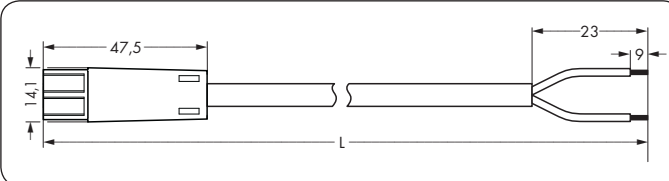


Color	Item no.	Pack.-unit	
T-distribution connector, 1 x plug / 2 x socket, with special coding			
light gray	893-1656 ○	25	




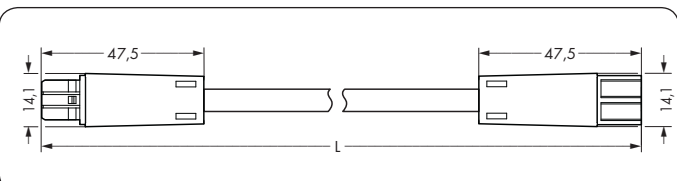
“Flying leads” using a T-distribution connector




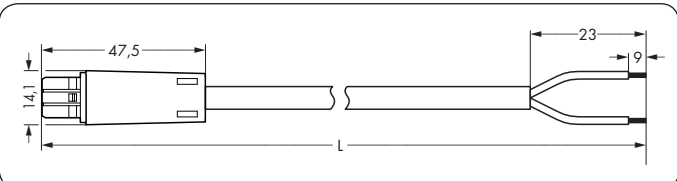
	<p>PVC 2Y(ST)2x(2x0.8)</p> <p>50 V/0.8 kV/3 3 A</p> <p>📌 Approvals</p>
<p>Interconnecting cables, socket - plug</p>	<p>Length Item no.</p>
 	<p>Coding E, ● for KNX applications PVC</p> <p>1 m 894-8992/033-106</p> <p>3 m 894-8992/033-306</p> <p>5 m 894-8992/033-506</p>
<p>Connecting cables, socket - free end</p>	<p>Length Item no.</p>
 	<p>Coding E, ● for KNX applications PVC</p> <p>1 m 894-8992/133-106</p> <p>3 m 894-8992/133-306</p> <p>5 m 894-8992/133-506</p>
<p>Connecting cables, plug - free end</p>	<p>Length Item no.</p>
 	<p>Coding E, ● for KNX applications PVC</p> <p>1 m 894-8992/233-106</p> <p>3 m 894-8992/233-306</p> <p>5 m 894-8992/233-506</p>
<p>Info</p>	
<p>📌 Approval data can be found in the online catalog at www.wagocatalog.com</p> <p>● green Coding E (1+ 2-) ● light gray Coding F (1+ 2-)</p> <p>Please find some information on the different codings on pages 146 and 147</p>	

	<p>PVC 2Y(ST)2x(2x0.8)</p> <p>50 V/0.8 kV/3 3 A</p> <p>① Approvals</p>
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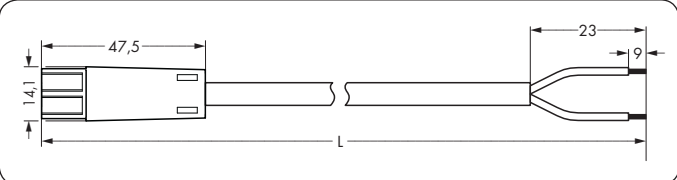
Interconnecting cables, socket - plug	Length Item no.
--	------------------------

 	<p>Coding F, ○ for universal fieldbus applications</p> <p>PVC</p>
	1 m 894-8992/033-107
	3 m 894-8992/033-307
	5 m 894-8992/033-507

Connecting cables, socket - free end	Length Item no.
---	------------------------

 	<p>Coding F, ○ for universal fieldbus applications</p> <p>PVC</p>
	1 m 894-8992/133-107
	3 m 894-8992/133-307
	5 m 894-8992/133-507

Connecting cables, plug - free end	Length Item no.
---	------------------------

 	<p>Coding F, ○ for universal fieldbus applications</p> <p>PVC</p>
	1 m 894-8992/233-107
	3 m 894-8992/233-307
	5 m 894-8992/233-507

Lengths	Pack.-unit
1 m	50
3 m	25
5 m	15
Other lengths on request	

**772 Series**

IDC Modules for Flat Cables

5 x 2.5 mm² (AWG 14) / 5 x 4 mm² (AWG 12) /5 x 2.5 mm² (AWG 14) + 2 x 1.5 mm² (AWG 16)

– Supply Module

104

– Tap-Off Modules, WINSTA® MIDI Connectors

105

**893 Series**

IDC Modules for Flat Cables

5 x 2.5 mm² (AWG 14) + 2 x 1.5 mm² (AWG 16) / 2 x 1.5 mm² (AWG 16)

– Supply Modules (KNX and Special Coding)

108, 112

– Tap-Off Modules (KNX and Special Coding)

109, 113

**896 Series**IDC Modules for Flat Cable 3 x 2.5 mm²/AWG 14

– Supply and Tap-Off Modules

116, 117

**895 Series**POWERBLOCK 10 for Flat Cable 5 x 10 mm²/AWG 8

– Supply and Tap-Off Modules

118, 119

**895 Series**POWERBLOCK 16 for Flat Cable 5 x 16 mm²/AWG 6

– Supply and Tap-Off Modules

120, 121

**897 Series**Flat Cable 2 x 1.5 mm²/AWG 16

114

Flat Cable 5 x 2.5 mm²/AWG 14

106

Flat Cable 5 x 4 mm²/AWG 12

107

Flat Cable 5 x 2.5 mm²/AWG 14 + 5 x 1.5 mm²/AWG 16

107, 110

Important note:

The WINSTA IDC system consists of the flat cables and the appropriate WINSTA connection components that are described in this catalog and marked with "WAGO".

WAGO warrants the fault-free function of the WINSTA IDC System only where original WINSTA components are utilized.

Handling WINSTA® IDC 772 Series

Module positioning and contacting



Insert flat cable into bottom part (observe coding!).



Mount IDC module flush with the bottom part. Should the IDC module jam during mounting, turn the upper part by 180° and remount it.



Screw down contact elements up to the stop.

Module positioning and contacting



Connecting an installation cable to the supply module. Stripped solid wires can be connected by simply pushing them in. When using stripped fine-stranded wires, open clamping unit using a screwdriver.

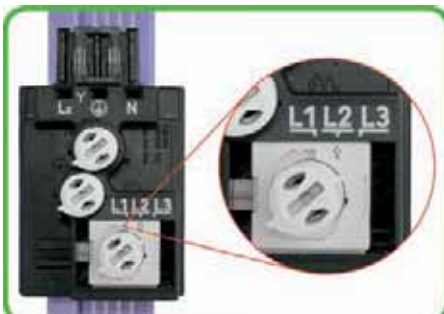


Fixing the supply cable using strain relief housing.

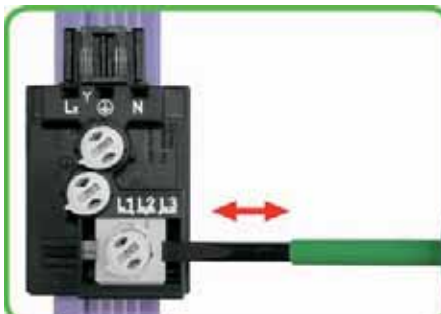


Tighten the strain relief screw using a screwdriver

Phase selection



The phase selector is in position L2 (center) when delivered.



Move the phase selector into position L1 or L3 if required.



After connecting the flat cable, the IDC module is locked and can no longer be moved, even after unscrewing the contact element!

Phase selection



NOTICE: Should it be necessary to tap another phase, this must be done in a different location. To do so, the contact elements must be unscrewed and brought back to their original position.



Lifting the contact elements unlocks the IDC module which makes it possible to move it and to select the new phase. **NOTICE:** Do not use it in the same location of the flat cable!

Isolating tape



After removing the module, the contact holes in the flat cable must be sealed using the insulating tape.

772 Series Supply Module with Strain Relief Housing, 5 Poles

2 x 0.5 – 4 mm² ①
400 V/6 kV/3
25 A



2 x AWG 20 - 12

 9 mm / 0.35 in

② Approvals



Description	Color	Item no.	Pack.-unit
Supply module, 5 poles, Tap-off module with phase selection, 3 poles, Tap-off module, 5 poles	Supply module with strain relief housing ③, cable diameter 9 - 13 mm / 0.35 - 0.51 in		
	black	772-261	25
	red	772-267	25
	for flat cables see pages 106 and 107		

Accessories			
Mounting plate, for power supply and tap-off modules			
	black	772-260	25
Fixing pin, for mounting plates, 6.1 x 2.5 - 4 mm/ 0.24 x 0.098 - 0.157 in	black	770-601	250
			

Info	Dimensions (in mm)
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① Wire range: 0.5 - 4 mm² "s + f-st"
0.5 - 2.5 mm² "stranded"

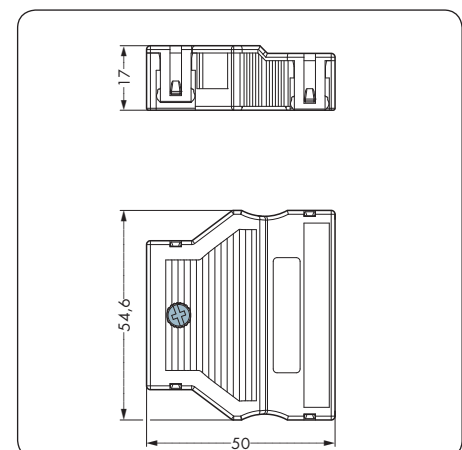
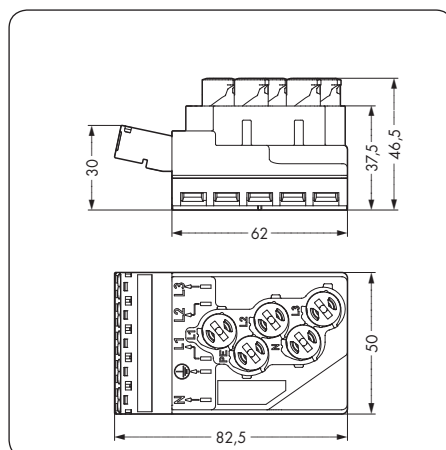
② Approval data can be found in the online catalog at www.wagocatalog.com

③ Strain relief housings for larger cable diameters see page 61

Processing temperature +5 °C to +40 °C

● black Coding A (N ⊕ L1 L2 L3)
● red Coding P (N ⊕ L1 L2 L3)

Please find some information on the different codings on the pages 146 and 147



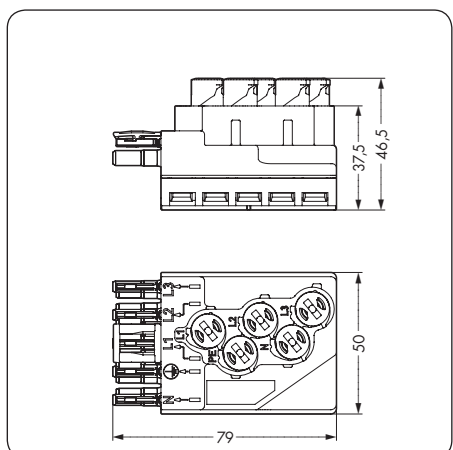
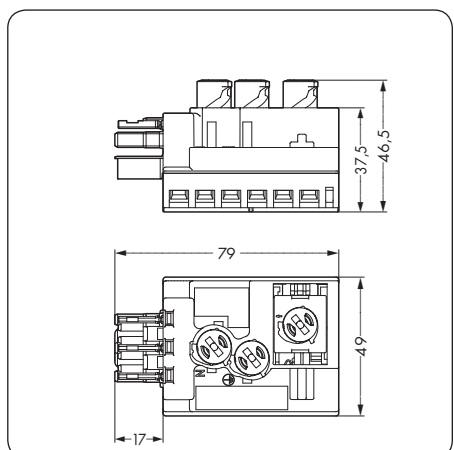
772 Series Tap-Off Modules, 3 and 5 Poles

400 V/6 kV/3 250 V/4 kV/3 25 A Ⓢ Approvals	400 V/6 kV/3 25 A Ⓢ Approvals
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Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Tap-off module with phase selection, 3 poles, for WINSTA® MIDI plug-in and distribution connectors, supply position L2			Tap-off module, 5 poles, for WINSTA® MIDI plug-in and distribution connectors		
black	772-263	● 25	black	772-262	● 25
red	772-269	● 25	red	772-268	● 25
for flat cables see pages 106 and 107			for flat cables see pages 106 and 107		
black	772-260	25	black	772-260	25
black	770-601	250	black	770-601	250

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Series 897 Flat Cables 5 x 2.5 mm²/AWG 14

	<p>Flat cable 5 x 2.5 mm²/AWG 14 3L + N + PE halogen-free 0.6/1kV</p> <p>① Approvals</p>	<p>Flat cable 5 x 2.5 mm²/AWG 14 3L + N + PE PVC 0.6/1kV</p> <p>① Approvals</p>
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Flat cables, halogen-free or PVC, 5 and 7 poles	Flat cable 5 x 2.5 mm ² /AWG 14, halogen-free			Flat cable 5 x 2.5 mm ² /AWG 14, PVC		
	gray	897-253		light green	897-251	

Accessories

<p>Insulating tape for flat cables</p> <p> For sealing the contact holes in the flat cable.</p>	black	897-900	10	black	897-900	10
<p>Flat cable end cover, plastic</p> <p> Every cable end must be fitted with an end cover.</p>	transparent	897-250	10	transparent	897-250	10
<p>Fixing clamp, plastic, for screw mounting</p> <p></p>	gray	897-878	1	gray	897-878	1
<p>Stripping pliers</p> <p></p>		897-971	1		897-971	1
<p>Cutter</p> <p></p>		897-972	1		897-972	1

Info	
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① Approval data can be found in the online catalog at www.wagocatalog.com

897 Series

Flat Cables 5 x 4 mm²/AWG 12 and 5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16


Flat cable 5 x 4 mm ² /AWG 12 3L + N + PE halogen-free 0.6/1kV ① Approvals	Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 3L + N + PE + 2 Bus halogen-free 0.6/1kV ① Approvals	Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 3L + N + PE + 2 Bus PVCi 0.6/1kV ① Approvals
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Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Flat cable 5 x 4 mm ² /AWG 12, halogen-free			Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 halogen-free			Flat cable 5 x 2.5 mm ² /AWG 14+ 2 x 1.5 mm ² /AWG 16, PVC		
black	897-453		violet	897-262		violet	897-261	
black	897-900	10	black	897-900	10	black	897-900	10
transparent	897-250	10	transparent	897-260	10	transparent	897-260	10
gray	897-878	1	gray	897-878	1	gray	897-878	1
	897-971	1		897-971	1		897-971	1
	897-972	1		897-972	1		897-972	1

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893 Series Supply Module, 2 Poles, for 7-Core Flat Cable

<p>0.5 – 1.5 mm² 50 V/0.8 kV/3 3 A</p> <p> 5 - 6 mm / 0.22 in</p> <p>1 Approvals</p>



The IDC module can only be mounted if the two codings correspond to each other. Should the IDC module jam during mounting, turn the module by 180° and remount it, flush with the bottom part.

Description	Color	Item no.	Pack.-unit
Supply module, 2 poles, Tap-off modules, 2 poles with screw connection	Tap-off module, tightening torque of the screws 1 Nm		
	gray	893-261	25
	for flat cables see page 110		



Remove transparent cover using a screwdriver.





The flat cable is contacted by tightening the screws that are marked in red and black. Observe tightening torque of 1 Nm!

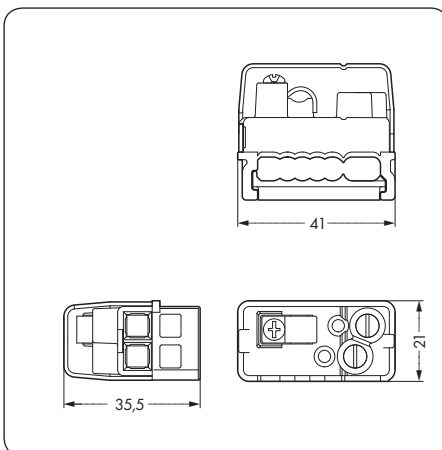
Info	Dimensions (in mm)
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1 Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +5 °C to +40 °C

 green Coding E (1+ 2-)
 light gray Coding F (1+ 2-)

Please find some information on the different codings on the pages 146 and 147



Fix the bus cable using the strain relief and connect stripped wires as shown in the picture.

893 Series Tap-Off Modules, 2 Poles, for 7-Core Flat Cable

50 V/0.8 kV/3 3 A ① Approvals	50 V/0.8 kV/3 3 A ① Approvals
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The IDC module can only be mounted if the two codings correspond to each other.
Should the IDC module jam during mounting, turn the module by 180° and remount it, flush with the bottom part.

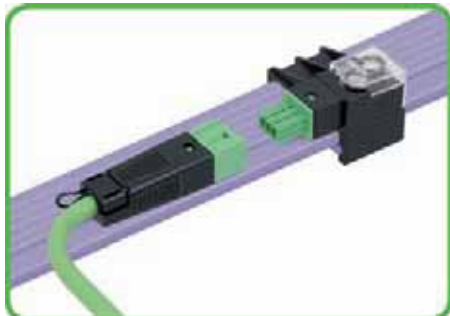
Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Tap-off module, 2 poles, for connectors and cable assemblies, coding E, KNX, tightening torque of the screws 1 Nm			Tap-off module, 2 poles, for connectors and cable assemblies, coding F, tightening torque of the screws 1 Nm		
green	893-262	● 25	light gray	893-269	○ 25
for flat cables see page 110			for flat cables see page 110		



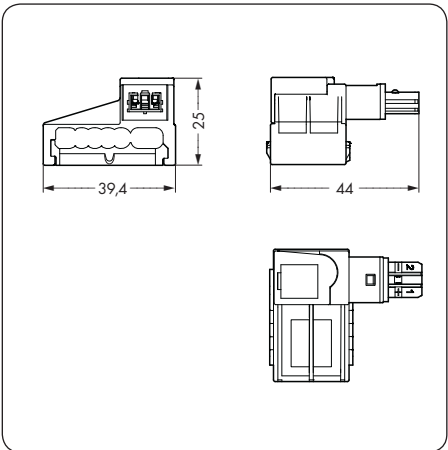
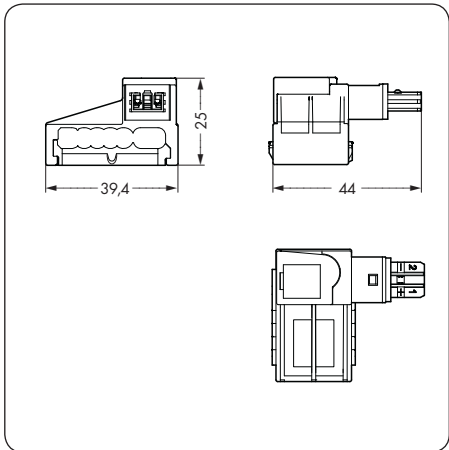
The flat cable is contacted by tightening the screws.
Observe tightening torque of 1 Nm!



Snap on transparent protective cover.

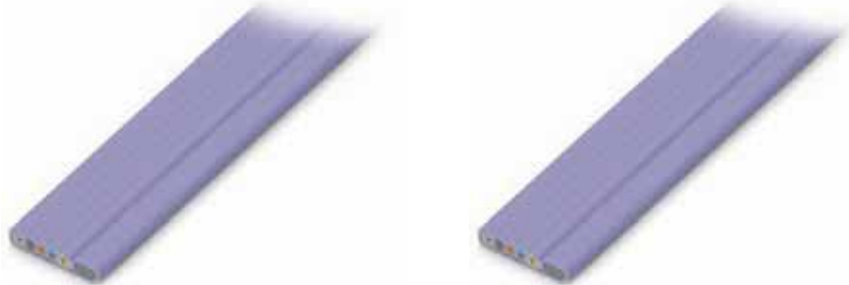


Connecting a cable assembly.








Series 897 Flat Cables 5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16

	Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 3L + N + PE + 2 Bus halogen-free 0.6/1kV ① Approvals	Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 3L + N + PE + 2 Bus PVCi 0.6/1kV ① Approvals
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Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Flat cables, halogen-free or PVC, 7 poles	Flat cable 5 x 2.5 mm ² /AWG 14 + 2 x 1.5 mm ² /AWG 16 halogen-free			Flat cable 5 x 2.5 mm ² /AWG 14+ 2 x 1.5 mm ² /AWG 16, PVC		
	violet	897-262		violet	897-261	

Accessories

Insulating tape for flat cables,  For sealing the contact holes in the flat cable.	black	897-900	10	black	897-900	10
Flat cable end cover, plastic  Every cable end must be fitted with an end cover.	transparent	897-260	10	transparent	897-260	10
Fixing clamp, plastic, for screw mounting 	gray	897-878	1	gray	897-878	1
Stripping pliers 		897-971	1		897-971	1
Cutter 		897-972	1		897-972	1

Info	
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① Approval data can be found in the online catalog at www.wagocatalog.com




6 WINSTA® IDC

112

893 Series Supply Module, 2 Poles, for 2-Core Flat Cable

4 x Ø 0.6 - 0.8 mm / 0.023 - 0.031 in "s"
50 V/0.8 kV/3
3 A

 5 - 6 mm / 0.22 in

 Approvals



The IDC module can only be mounted if the two codings correspond to each other.

Should the IDC module jam during mounting, turn the module by 180° and remount it, flush with the bottom part.

Description	Color	Item no.	Pack.-unit
Supply module, 2 poles, with 243 Series push-wire connectors	Tap-off module, tightening torque 1 Nm		
Tap-off module, 2 poles, with screw connection	black	893-121	25

for flat cables
see page 114




The flat cable is contacted by tightening the screws. Observe tightening torque of 1 Nm!





Snap on transparent protective cover.

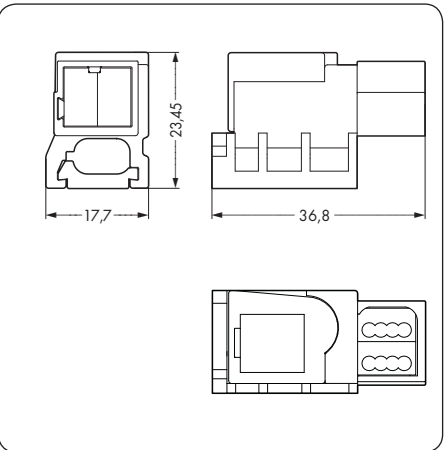
Info	Dimensions (in mm)
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 Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +5 °C to +40 °C

-  green Coding E (1+ 2-)
-  light gray Coding F (1+ 2-)

Please find some information on the different codings on the pages 146 and 147



Connecting: insert stripped solid wires up to the stop.

893 Series Tap-Off Modules, 2 Poles, for 2-Core Flat Cable

50 V/0.8 kV/3 3 A	50 V/0.8 kV/3 3 A
① Approvals	① Approvals



The IDC module can only be mounted if the two codings correspond to each other. Should the IDC module jam during mounting, turn the module by 180° and remount it, flush with the bottom part.

Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Tap-off module, 2 poles, for connectors and cables, KNX, tightening torque of the screws 1 Nm			Tap-off module, 2 poles, for connectors and cables, tightening torque of the screws 1 Nm		
green	893-122	25	light gray	893-129	25
for flat cables see page 114			for flat cables see page 114		

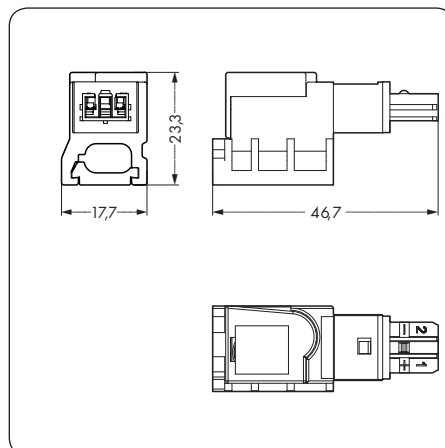
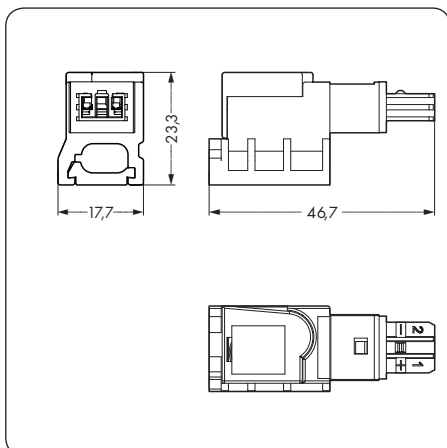


The flat cable is contacted by tightening the screws. Observe tightening torque of 1 Nm!



Snap on transparent protective cover.

--



Connecting a cable assembly.






Series 897 Flat Cables 2 x 1.5 mm²/AWG 16

	Flat cable 2 x 1.5 mm ² /AWG 16 2 Bus halogen-free 50 V ⓘ Approvals	Flat cable 2 x 1.5 mm ² /AWG 16 2 Bus PVC 50 V ⓘ Approvals
--	--	---



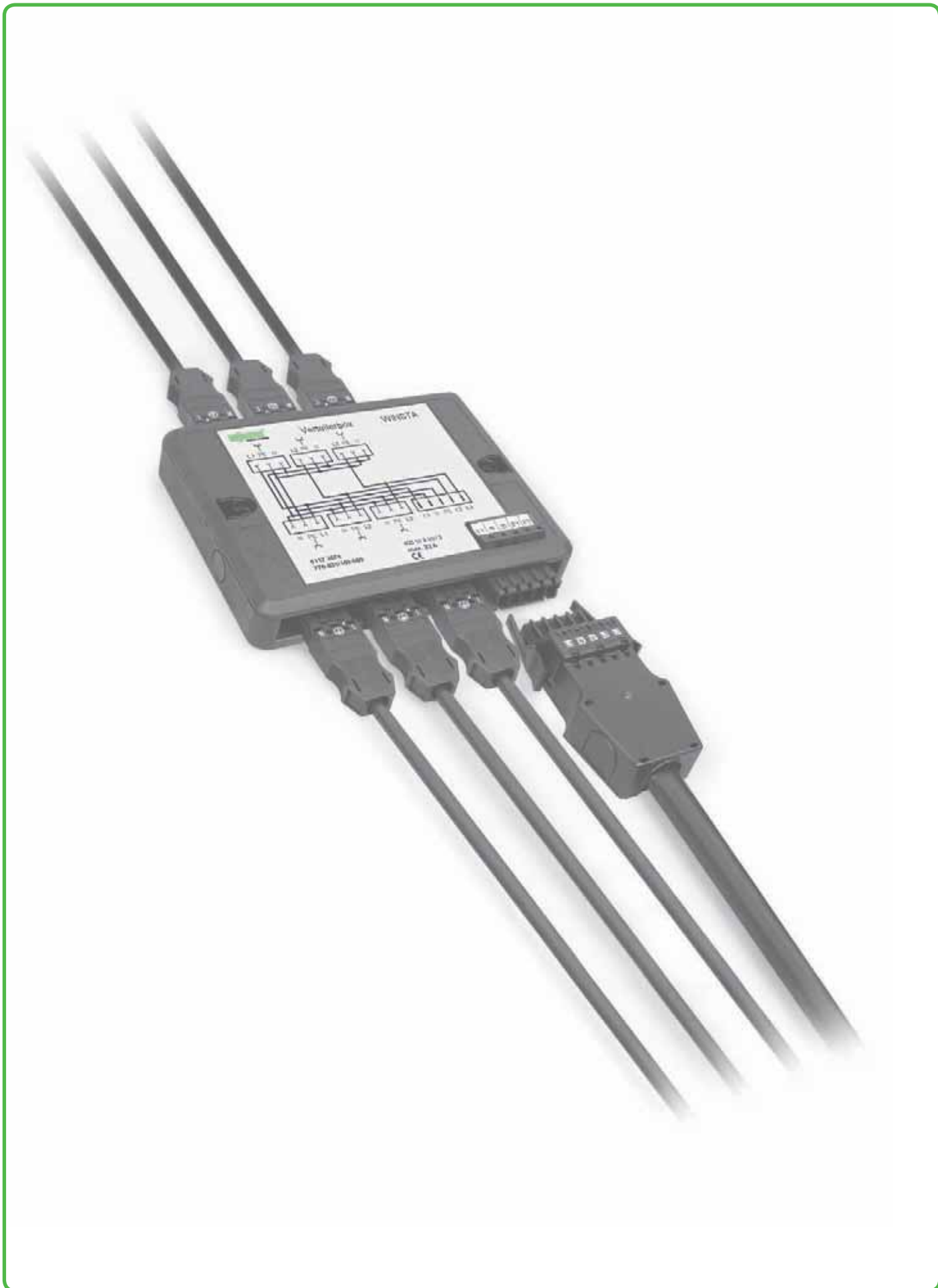
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Flat cables, halogen-free or PVC, 2 poles	Flat cable 2 x 1.5 mm ² /AWG 16 halogen-free			Flat cable 2 x 1.5 mm ² /AWG 16 PVC		
	gray	897-122		gray	897-121	

Accessories

Insulating tape for flat cables,  For sealing the contact holes in the flat cable.	black	897-900	10	black	897-900	10
Flat cable end cover, plastic  Every cable end must be fitted with an end cover.	transparent	897-120	10	transparent	897-120	10
Fixing clamp, plastic, for screw mounting 	gray	897-878	1	gray	897-878	1
Stripping pliers 		897-971	1		897-971	1
Cutter 		897-972	1		897-972	1

Info	Dimensions (in mm)
------	--------------------


ⓘ Approval data can be found in the online catalog at www.wagocatalog.com



	<p>3 x 2.5 mm²/AWG 14 250 V/4kV/3 24 A</p> <p>① Approvals</p>	<p>3 x 2.5 mm²/AWG 14 250 V/4kV/3 24 A</p> <p>① Approvals</p>
--	--	--



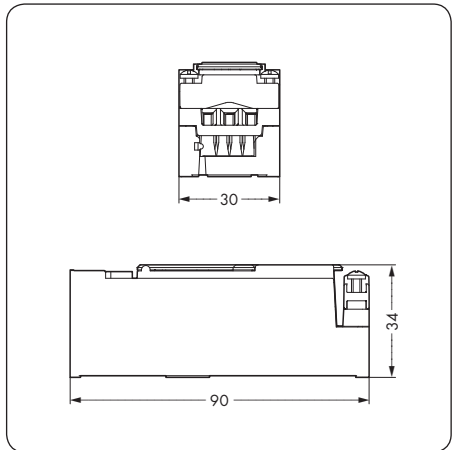
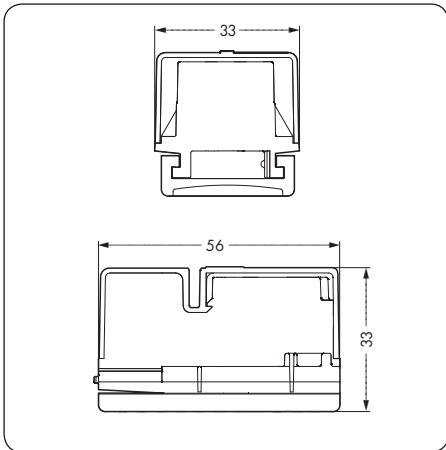
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Supply module for flat cable 3 x 2.5 mm ² /AWG 14, Tap-off module for flat cable 3 x 2.5 mm ² /AWG 14, with screw connection	light gray	896-231	10	light gray	896-232	10

Accessories						
Fixing clamp, for screw mounting						
	dark gray	897-839	200 (8 x 25)	dark gray	897-839	200 (8 x 25)

Info	Dimensions (in mm)
------	--------------------

① Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +5 °C to +40 °C



	Flat cable 5 x 2.5 mm²/AWG 14 250 V
	1 Approvals







Position bottom part and tighten screw, if necessary. Insert flat cable accurately. The key in the bottom part must match the groove in the cable insulation.

Description	Color	Item no.	Pack.-unit
Flat cable 5 x 2.5 mm²/AWG 14	Flat cable PVC 3 x 2.5 mm², L + N + PE		
	light gray	897-231	
	Flat cable halogen-free 3 x 2.5 mm²/AWG 14, L + N + PE		
	light gray	897-232	


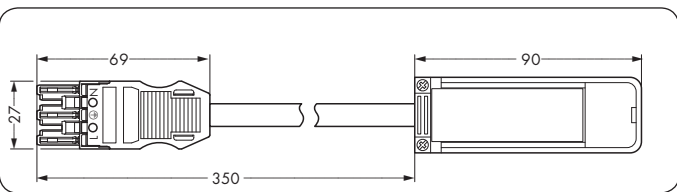


Cut outgoing feeder cable, remove outer and inner insulation and insert stripped wires. Tighten screws firmly. (Tightening torque 0.7 Nm)

Accessories				
Flat cable end cover, plastic				
	Every cable end must be fitted with an end cover.	transparent	897-230	10
Insulating tape for flat cables,				
	For sealing the contact holes in the flat cable.	black	897-900	10
Stripping pliers				
	Remove 17 mm of the wire insulation.		897-931	1
Cutter				
			897-972	1



Insert upper part onto bottom part to the stop (engages audibly). Push down and lock lever. All 3 cores are contacted simultaneously.


Tap-off module with WINSTA MIDI socket	Color	Item no.	Pack.-unit
 	Tap-off module fitted with WINSTA MIDI socket (coding A), with 35 cm/13.77 in H05VV-F cable 3 x 2.5 mm²/AWG 14		
	black	896-233	10
	white	896-234	10
	Other lengths on request		

	5 x 10 mm²/AWG 8 750 V/8kV/3 57 A ① Approvals	5 x 4 mm²/AWG 12 690 V/8kV/3 32 A ① Approvals
--	--	--



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Supply module for flat cable 5 x 10 mm ² /AWG 8, with CAGE CLAMP®S connection, Tap-off module with two outputs 5 x 4 mm ² /AWG 12, with CAGE CLAMP® connection						
	Power supply module, with TOPIJOB® S rail-mounted terminal blocks, for flat cable 5 x 10 mm ² /AWG 8			Tap-off module 5 x 4 mm ² /AWG 12, with spring clamp connection, for flat cable 5 x 10 mm ²		
	transparent	895-1051	2	transparent	895-1052	2
Tightening torque 0.7 Nm						

Accessories

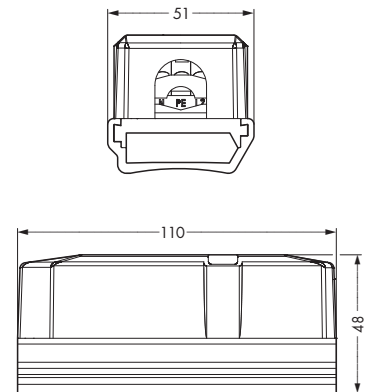
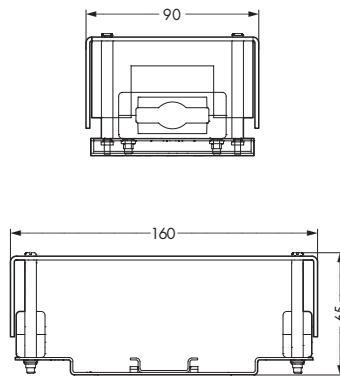
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Fixing clamp, for screw mounting						
	black	897-859	100	black	897-859	100

Info

Dimensions (in mm)

① Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +10 °C to +40 °C



	Flat cable 5 x 10 mm²/AWG 8 0.6/1kV
	1 Approvals







Cut both sides of the outer insulation of the flat cable using a stripping knife (cutting length 30 mm!).

Description	Color	Item no.	Pack.-unit
Flat cable 5 x 10 mm ² /AWG 8	Flat cable PVC 5 x 10 mm ² /AWG 8, 3L + N + PE		
	light green	897-1051	
	Flat cable halogen-free 5 x 10 mm ² /AWG 8, 3L + N + PE		
	light green	897-1052	



Cut off the outer insulation using the cutter.

Accessories			
Flat cable end cover, plastic			
	Every cable end must be fitted with an end cover.	transparent	897-1050 10
Insulating tape for flat cables,			
	For sealing the contact holes in the flat cable.	black	897-900 10
Stripping knife			
			897-951 1
Cutter			
			897-970 1



Push end cover fully onto the wire ends.

Assembled version







The 895-1652 tap-off module is also available with a WINSTA® MAXI connector. Item number and delivery time on request.

	<p>5 x 16 mm²/AWG 6 690 V/8kV/3 76 A</p> <p>❶ Approvals</p>	<p>5 x 6 mm²/AWG 10 690 V/8kV/3 41 A</p> <p>❶ Approvals</p>
--	--	--



Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	
Supply module for flat cable 5 x 16 mm ² /AWG 6, with screw connection,	black	895-1651	1	Tap-off module with two outputs 5 x 6 mm ² /AWG 10, with screw connection,	black	895-1652	1
Tap-off module with two outputs 5 x 6 mm ² /AWG 10, with screw connection				for flat cable 5 x 16 mm ² /AWG 6			
	Tightening torque 3.5 Nm			Tightening torque 2 Nm			

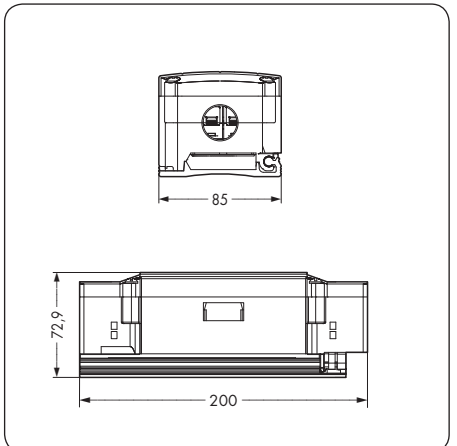
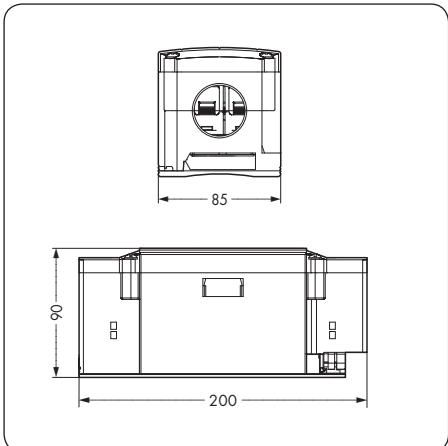
Accessories

<p>Cable fitting, M40 x 1.5,</p>  <p>plastic, with O-ring gasket, clamping range Ø 20 - 26 mm / 0.78 - 1.02 in</p>	black	895-1601	5			
<p>Cable fitting, M25 x 1.5,</p>  <p>plastic, with O-ring gasket, clamping range: Ø 9 - 16 mm / 0.35 - 0.63 in</p>				gray	895-1602	5
<p>Ø 13 - 18 mm / 0.51 - 0.70 in</p>				gray	895-1603	5
<p>Cable fitting, M25 x 1.5,</p>  <p>brass, with O-ring gasket, clamping range Ø 20 - 26 mm / 0.78 - 1.02 in</p>				895-1604 5		
<p>Filler plug, M25 x 1.5,</p>  <p>plastic, with O-ring gasket</p>				black	895-1605	5

Info	Dimensions (in mm)
------	--------------------

❶ Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +10°C to +40°C







	Flat cable 5 x 16 mm²/AWG 6 0.6/1kV ① Approvals
--	---



Description	Color	Item no.	Pack.-unit
Flat cable 5 x 16 mm ² /AWG 6	Flat cable PVC 5 x 16 mm ² /AWG 6, 3L + N + PE		
	light gray	897-1651	
	Flat cable halogen-free 5 x 16 mm ² /AWG 6, 3L + N + PE		
	light gray	897-1652	



To make the contact to the flat cable, tighten screw to the stop (observe the tightening torque!) . . .

Accessories				
Flat cable end cover, plastic				
	Every cable end must be fitted with an end cover.	transparent	897-1650	10
Insulating tape for flat cables,				
	For sealing the contact holes in the flat cable.	black	897-901	10
Stripping knife				
			897-952	1
Cutter				
			897-970	1



. . . red contact clips when flush with terminals confirm that contacts are made correctly.

Assembled version



The 895-1652 tap-off module is also available with a WINSTA® MAXI connector. Item number and delivery time on request.



Tools
Operating Tool, Screwdrivers
Cable Cutter, Stripping Tools
Stripping Pliers, Wire Cutters, Stripping Knives

124
125
126



Wiring Aid
Self-Adhesive Marker Strips

127






Cable Cutter and Stripping Tools

<p>Cable cutter acc. to VDE for copper and aluminum conductors up to 35 mm²/AWG 2</p>	<p>Stripping tool "Quickstrip 10" 0.02 mm² - 10 mm² (AWG 34 - 8) "f-st" (6 mm²/AWG 10 "s") Cable cutter for conductors up to 10 mm²/AWG 8 "f-st" (1.5 mm²/AWG 16 "s")</p>	<p>Stripping tool "Quickstrip 16" 4 mm² - 16 mm² (AWG 12 - 6) Cable cutter for conductors up to 10 mm²/AWG 8 "f-st" (1.5 mm²/AWG 16 "s")</p>
--	--	--



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Cable cutter, for conductors from 0.25 mm ² to 35 mm ² (AWG 22 - 2)			Stripping tool "Quickstrip 10", for fine-stranded conductors from 0.02 mm ² to 10 mm ² (AWG 34 - 8), for solid conductors from 0.02 mm ² to 6 mm ² (AWG 34 - 10)			Stripping tool "Quickstrip 16", for all conductors from 4 mm ² to 16 mm ² (AWG 12 - 6)		
green	206-118	1	black	206-124	1	black	206-125	1

Accessories

	<p>Spare cassette "standard" 0.02 mm² - 10 mm² (AWG 34 - 8)</p>  <p>206-126 1</p>	<p>Spare cassette "standard" 4 mm² - 16 mm² (AWG 12 - 6)</p>  <p>206-128 1</p>
	<p>Spare cassette with "V" blade for PTFE conductors from 0.02 mm² to 4 mm² (AWG 34 - 12)</p>  <p>206-127 1</p>	

Application notes



Cutting the cable.



Stripping the conductor.



Cutting the conductor.

- Conductor cross section can be adjusted easily.
- The stripping blade will not cause any damage to the conductor.
- The insulation will not be damaged by the wire holders during this adjustment process.
- The wire holders and the stripping blades will automatically open once the stripping process is completed.
- Strip length can be adjusted exactly using the movable stop.
- Stripping blade can be exchanged.
- Cable cutter is self-sharpening and protected against accidental contact.
- Entire body made of fiberglass reinforced polyamide.

Wiring Aid, Marker Strips – WINSTA-MIDI

Wiring aid, for 5-pole connectors, distribution connectors with phase selection and IDC supply modules, suitable for solid and stranded conductors.

Item no. 770-100

Marker strips



Strip outer insulation, insert cable into the wiring aid and arrange the single wires according to the marking, starting with N.



Cut wire ends.



Strip wire ends 9 mm/0.354 in (see marking).



Push connector on prepared wires (picture shows a socket).



Slide connector to the stop over wire ends.



Connector with inserted wires.



Socket with connected cable in a strain relief housing.



Wired connector with strain relief housing.

Item no.	Pack.-unit
Self-adhesive marker strips on DIN A4 cards, strip length 182 mm, white	
210-333	1
for 770 Series Height of marker strip 6 mm/0.236 in (40 x) Size of marker field: Strain relief, 3-pole, 28 x 6.5 mm/0.256 in Strain relief, 4-pole, 38 x 6.5 mm/0.256 in Strain relief, 5-pole, 48 x 6.5 mm/0.256 in Strain relief, 6-pole, 62 x 6.5 mm/0.256 in	
210-334	1
for 771 Series Height of marker strip 5 mm/0.196 in (48 x) Size of marker field: Strain relief, 3-pole, 22 x 5.2 mm/0.204 in Strain relief, 4-pole, 32 x 5.2 mm/0.204 in Strain relief, 5-pole, 42 x 5.2 mm/0.204 in	
Marking software: smartMARKING	
CD-ROM	888-402/0510-0000 1

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Kontaktsysteme GmbH

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**REGIOLUX
Fränkische Leuchten GmbH**

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König + Neurath AG

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RIDI Leuchten GmbH

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Lenneper GmbH & Co. KG

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**Schulte Elektrotechnik
GmbH & Co. KG**

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LITE-LICHT GmbH

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**Siteco
Beleuchtungstechnik GmbH**

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Ludwig Leuchten KG

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TEHALIT GmbH & Co. KG

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Philips AEG Licht GmbH

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TRILUX-LENZE GmbH + Co. KG

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WILA Leuchten GmbH

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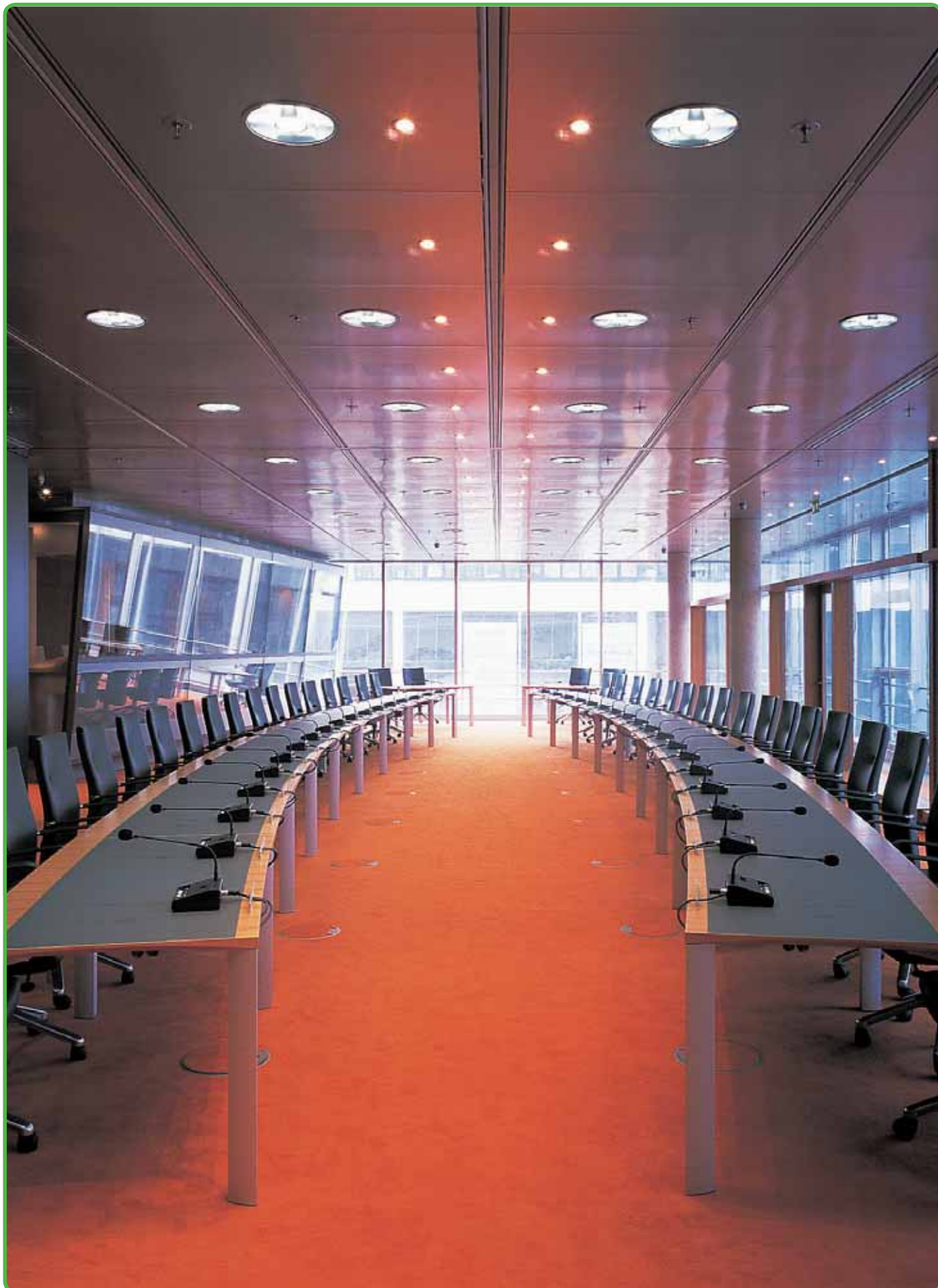
PUK-WERKE KG

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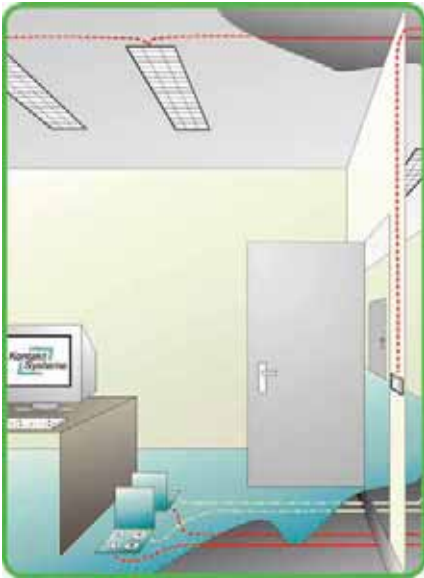


Zumtobel Staff GmbH

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System Partners



FLEXISS flexible installation system for raised floor and suspended ceiling: equipped with WINSTA®.



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We provide harmonized overall office furnishing solutions. One-stop shopping, from office planning to the seating furniture.
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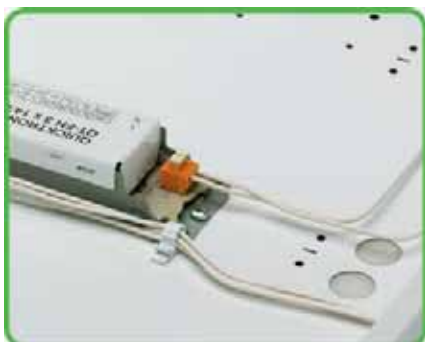
König + Neurath AG
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 Phone: +49 (0) 6039 / 483-0
 Fax: +49 (0) 6039 / 483-214
www.koenig-neurath.de • info@koenig-neurath.de



All recessed luminaires are available with the **WINSTA®** connector system.



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 Klosterstraße 60 • 51645 Gummersbach
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 Fax: +49 (0) 2261 / 5409-40
 www.lenneper.de • verkauf@lenneper.de



The following types of luminaires are available with **WINSTA®**:

- Recessed downlights
- "Soft Light" recessed luminaires
- Recessed louvered luminaires T5
- Recessed louvered luminaires T8
- In-paneling lighting systems
- Furniture lighting ML
- Batten luminaires STNF

LITE-LICHT®

LITE-LICHT GmbH
 Boschstraße • 33442 Herzebrock-Clarholz
 Phone: +49 (0) 5245 / 443-0
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WINSTA®- The perfect connection!

System Partners



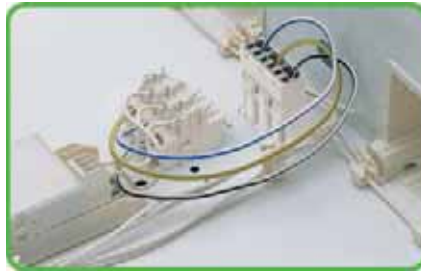
Suspended luminaire



Linear fluorescent luminaire



Louvered luminaire

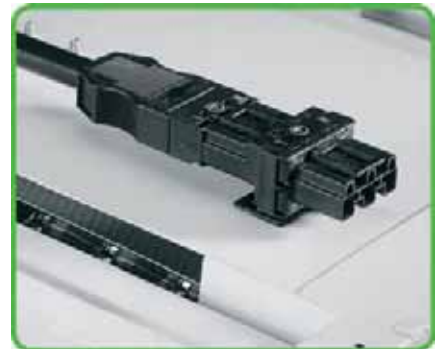


The following types of luminaires are available with WINSTA®:

- PLANUS
- LEVIS
- ORBIS
- Louvered luminaires
- Continuous rows of luminaires



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 www.ludwig-leuchten.de
 zen@ludwig-gebr.de



The following types of luminaires are available with WINSTA®:

- FLATLIGHT
- TBS625-635
- INDOLIGHT



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 Rathenaustraße 2-6 • 31832 Springe
 Phone: +49 (0) 5041 / 75-0
 Fax: +49 (0) 5041 / 75-508
 Service-Tel.: 01802 / 54248 (zum Ortstarif)
 www.aeglicht.philips.de
 infocenter.philips.aeg.licht@philips.com



Due their modular design, the well proven POPP adaptus® professional socket strips can meet all customer requirements. Therefore, the adaptus® furniture socket strips equipped with WAGO WINSTA® are very well suited for building installation applications.



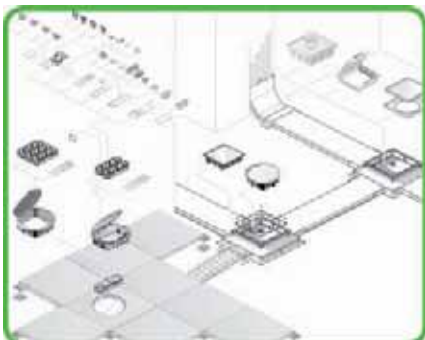
POPP GmbH

Kulmbacher Straße 27 • 95460 Bad Berneck

Phone: +49 (0) 9273 / 73-0

Fax: +49 (0) 9273 / 73-130

www.popp-elektro.de • info@popp-elektro.de



The following underfloor system fitting components are available with WINSTA®:

- Raised floor systems
- Cavity floor systems

Other components available upon request



PUK-WERKE KG

Nobelstr. 45-51 • 12057 Berlin

Phone: +49 (0) 30 / 68283-01

Fax: +49 (0) 30 / 68283-266

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System Partners



The following types of luminaires are available with WINSTA®:

- UE (recessed luminaires)
- Meta ZD (pendant luminaires)

REGIOLUX

REGIOLUX Fränkische Leuchten GmbH
 Hellinger Str. 3 • 97486 Königsberg
 Phone: +49 (0) 9525 / 89-0
 Fax: +49 (0) 9525 / 89-374
 www.regiolux.de • info@regiolux.de



The following types of luminaires are available with WINSTA®:

- | | | |
|-----------------|-----------------|--------------------|
| EBRE 418-3 W | EBRE 314 W-EVG | Ecalux-E 236 RW |
| EBRE 418 W | EBRE 414 W-EVG | Ecalux-E 418 RW |
| EBRE 418-3 A | EBRE 314 A-EVG | Ecalux-E 418-3 RW |
| EBRE 418 A | EBRE 414 A-EVG | Ecalux-E 236 RA |
| EBRE 418-3 SM | EBRE 314 SM-EVG | Ecalux-E 418 RA |
| EBRE 418 SM | EBRE 414 SM-EVG | Ecalux-E 418-3 RA |
| EBRE 418-3 SG | EBRE 314 SG-EVG | Ecalux-E 236 PRG |
| EBRE 418 SG | EBRE 414 SG-EVG | Ecalux-E 418 PRG |
| EBRE 418 SG-BAP | | Ecalux-E 418-3 PRG |

Also available as a design with electronic ballast.

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 Licht für Mensch und Technik

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 Fax: +49 (0) 7477 / 872-48
 www.ridi.de • info@ridi.de



The following systems are available with WINSTA®:

- EVOline® Express
- EVOline® Dock
- EVOline® Port



Schulte Elektrotechnik GmbH & Co. KG

Juengerstraße 21 • 58515 Lüdenscheid

Phone: +49 (0) 2351 / 94810

Fax: +49 (0) 2351 / 42658

www.schulte.com

info@schulte.com



The following types of luminaires are available with WINSTA®:

- Comfit® M
- Comfit® Plus
- Comfit® S
- Lunis ELunis E

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Siteco Beleuchtungstechnik GmbH

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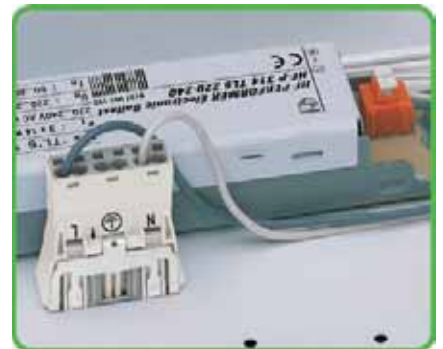
System Partners



BR netway
with WINSTA® connectors
for power supply
and distribution.



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Fax: +49 (0) 6842 / 9455555
www.tehalit.de • info@hager.de



The following types of luminaires are available with WINSTA®:

- Louvered recessed luminaires
- Recessed diffuser luminaires
- Damp-proof recessed luminaires
- Downlights

Other luminaires available upon request.



TRILUX-LENZE GmbH + Co. KG
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Fax: +49 (0) 2932 / 301-375
www.trilux.de • info@trilux.de



The following types of luminaires are available with WINSTA®:

- E Connect 2M
- E Connect MS3
- circLet MS3
- Variatic recessed luminaire

WILA

WILA Leuchten GmbH

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 Vödeweg 9-115 • 58638 Iserlohn
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 Fax: +49 (0) 2371/823-202
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The following types of luminaires are available with WINSTA®:

- MIREL louvered luminaires
- MILDES LICHT IV (SOFT LIGHT IV) Concept
- PANOS downlights

ZUMTOBEL STAFF

DAS LICHT ®

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WINSTA®- The perfect connection!

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Marine Applications

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Airports

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Motor Homes

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Trade Show Design

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Office Buildings

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Prefabricated Houses

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Lab Work Stations

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Rolling Stock

143



WINSTA®- The perfect connection!

Marine Applications



MEYER Shipyard in Papenburg uses the WINSTA® connector system for the installation of nearly all ceiling lights in cruise ships, and utilizes the advantage of dual connections in sockets and plugs of the WINSTA®

MIDI product family for the looping of the conductors from lamp to lamp. The distributors in the cabins too are completely equipped with WINSTA® MIDI snap-in type device connectors. The ready



wired distributor can be easily commissioned by simple and quick plugging of the outgoing feeders following the assembly in the cabin walls.

Airports



The decision was made for 5-pole WINSTA® MIDI connectors when designing the ceiling lighting at **Prague Airport**. Besides the required neutral and protective conductors, the other three poles are

used to feed three separate lighting circuits - for standard lighting, emergency lighting and escape way lighting. Because the same light fixture was to be used for all three circuits, three different



connecting cables were manufactured by WAGO as per customer specification.

Motor Homes



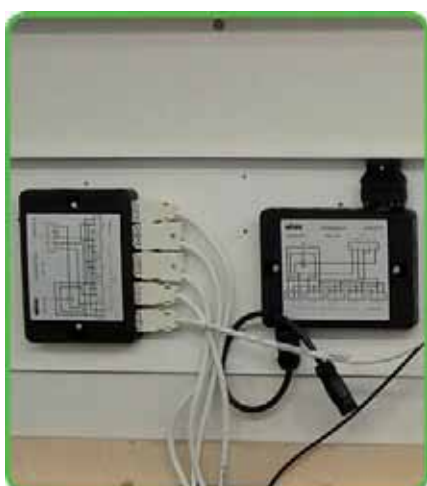
LMC Caravan GmbH & Co. KG in 48336 Sassenberg, Germany, is a manufacturer of mobile homes and trailers. They use **WINSTA®** for the installations in the mobile homes and trailers. The utiliza-



tion of a plug-in connector system permits the pre-fabrication of installation components outside the actual production line and parallel to the assembly of the vehicles. At the end, the whole installation is executed

quickly and hence, cost savingly, by simple plugging prior to the soft trimming of the walls.

Trade Show Design



The **trade show outfitter Brose** produces for a number of customers booths and exhibition spaces in various sizes. In order to keep the inrush current, which is caused by the electronic ballasts, low when dealing with big stands and many lighting fixtures



and hence to avoid the activation of the overcurrent protective device, different lighting areas used to be switched on manually one after the other. With just a single individually fabricated variant of the **WINSTA®** distribution box and an electronic time re-

lay with switch-on delay, integrated into a 5-pole **WINSTA®** MIDI plug, the switching process was conveniently automated.

Office Buildings



The Danish headquarters of globally operating Deloitte & Touche, the famous company for “audit, tax consultancy, consulting and corporate finance” is located in the **COPENHAGEN ATRIUM**. WINSTA® MIDI is used in two main areas. The light-

ing fixtures in the suspended ceilings have been completely wired with 5-pole plugs and sockets (partly using the DALI version with blue insulation) for both power supply and connection cables as well as T-joints. All lighting fixtures from ARKILUX were



equipped with WINSTA® snap-in connectors.

Within the sub-floor, WINSTA® boxes with two separate 230V AC circuits provide for the individual work spaces in the offices, one for the general power supply, the other for the power supply of the PCs exclusively.

Prefabricated Houses



The **pre-fab contractor ExNorm, KAMPA AG** has decided for electrical installations using the WINSTA® MIDI system. The decisive factor was the requirement to minimize work at the job site and to

increase the value added in the shop. The major portion of the electrical installation can be executed at defined environmental conditions, independently from wind and weather situations. All pre-fab components



are electrically connected to each other via simple plug-in processes on the site.

Lab Work Stations



Fa. Wesemann in 28857 Syke, Germany, offers complete lab installations, including the power supply of individual work spaces. For the electrical installations, they use plug-in connectors of the



WINSTA® system. All supply channels are equipped with cable assemblies. These elements can be easily connected to each other via simple plugging during the final assembly of the lab work stations,

without expensive conductor preparation and connection.

Rolling Stock



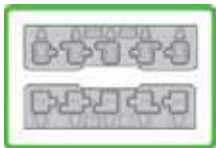
Bombardier Transportation Berlin uses plug-in connectors of the **WINSTA®** system in their "Talent Connex Pool". For the voltage supply at passenger seats, e.g. for the connection of notebooks to



the 230V supply, special pre-fabricated "Conductor chains" were installed in the sidewalls of the wagons. They consist of a 3-pole plug on the feeder side and several 3-pole sockets from which,

due to the dual connection option, the conductor can be looped from seat to seat.

10



Coding Overview

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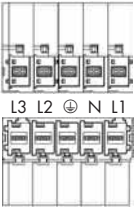

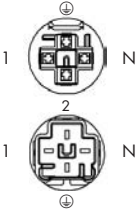
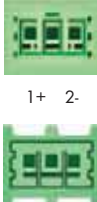
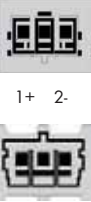
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Codings

Description	WINSTA MINI		WINSTA MIDI		
	2-pole	3-pole	3-pole	4-pole	5-pole
Series	890 / 891	890 / 891	770 / 771 / 772❶	770 / 771	770 / 771 / 772❶
Coding A black white e.g., universal applications	 N-L+	 N-L	 N-L	 1 2 ⊕ N	 L3 L2 L1 ⊕ N
Coding B gray e.g., control applications	 2 1	 3 2 1	 3 2 1	 4 3 2 1	 5 4 3 2 1
Coding E or F Coding E: KNX applications, green Coding F: special coding, light gray					
Coding I blue e.g., dimming					 DA DA L ⊕ N
Coding P red e.g., computer applications (UPS)			 N-L		 L3 L2 L1 ⊕ N
Coding Q green "Clean Earth" applications				 L PE2 PE1 N	 L PE3 PE2 PE1 N
Coding R Housing color: orange e.g., LON bus			 S LON LON		
Coding S brown e.g., switching applications			 L 2 1		

❶ Only codings A and P are suited for 772 Series

Description	WINSTA MAXI	WINSTA RD		WINSTA KNX	
	5-pole	3-pole	4-pole	2-pole	
Series	831	774	774	893/894	
Coding A black white e.g., universal applications					
Coding B gray e.g., control applications					
Coding E or F Coding E: KNX applications, green Coding F: special coding, light gray					
Kodierung I blue e.g., dimming					
Coding P red e.g., computer applications (UPS)					
Coding Q green "Clean Earth" applications					
Coding R Housing color: orange e.g., LON bus					
Coding S brown e.g., switching applications					

Question 1:

Can WINSTA® be used in low voltage range applications?

Compliance of the WINSTA® products with the low voltage directive is contained within the CE approval.

Question 2:

Can I wire the entire electrical installation of a functional building using WINSTA®?

The WINSTA® system allows the wiring of the entire electrical installation on both sides of the floor distributors.

Question 3:

What needs to be considered for the changeover from NYM cables for permanent installation to pluggable installation using flexible wires?

The changeover area must be fixed properly in order to protect the NYM cable from too high bending stress, in addition, all terminals must be protected against shear and tensile stress.

Question 4:

What needs to be considered when there is a concentration of WINSTA® cables, e.g. in a cable duct?

As a result of the heat build-up, it might be necessary to reduce the current carrying capacity or to increase the cross section from e.g. 2.5 mm² to 4 mm².

Question 5:

Where may I use WINSTA® for installation?

Anywhere there is enough space for connectors and cables, e.g. in cable ducts, false floors or plasterboard walls and suspended ceilings.

Question 6:

What needs to be considered if there is a cross section reduction?

The minimum conductor cross section must be adapted to the connected load. More protection measures are only required if the cable with the reduced cross section to the connected load is longer than 3 m, see VDE 0100, Nov. 1991, Part 430.

Question 7:

Are there distribution boxes with WINSTA® components available?

Yes. WAGO offers many distribution boxes with different functions, such as Dali Bus, Lon applications, blind control etc., ready for connection with WINSTA® connectors.

Question 8:

May I split a three-phase circuit when using WINSTA®?

It must be ensured that all three phases can be switched off at the same time, e.g. by using a 3-pole safety cutout or a 3-pole circuit breaker. WINSTA® offers several convenient solutions, such as three-phase to single-phase distribution connectors, distribution connectors with phase selection, intermediate couplers from 5 poles to 3 poles and customized distribution boxes.

Question 9:

What safety features does WINSTA® offer when designing different circuits, such as AV, SV or UPS?

WINSTA® offers connectors and distributors with different codings that are also marked in different colors for a clear differentiation. In the entire system!

Question 10:

Are there individual marking options for WINSTA® components?

Of course, flexible marking is part of a flexible connector system, and this is why WINSTA® also offers custom solutions.

Question 11:

Can I also integrate two relays in a WINSTA® distribution box in order to control blind motors?

Yes. It is even possible to integrate up to three 6 mm wide relays in a WINSTA® distribution box.

Question 12:

Is the WINSTA® system protected against accidental contact?

All components of the WINSTA® system are protected against accidental contact, hence it provides maximum safety.

Rated voltage

250 V/4 kV/3 acc. to IEC 60664
Air and creepage distance ≥ 5.5 mm/0.216 in
With strain relief ≥ 6.5 mm/0.255 in to accessible surfaces (protection class II)

Rated current

Max. 16 A, depending on the conductor cross section

Connectable conductor cross section

0.25 mm² to 1 mm² (AWG 22 - 18) solid, stranded and fine-stranded
1.5 mm²/AWG 16 solid and fine-stranded

Contact resistance

Approx. 3 m Ω contact resistance
Approx. 0.5 m Ω contact transition plug/socket

Approvals

Planned approvals: UL, CCA, LR, GL, DNV

Pending

EN / IEC 61 535

Degree of protection

In mated condition with strain relief housing: IP 20

Cable diameter

2-pole: \varnothing 3.8 - 8.2 mm (0.149 - 0.322 in)
3-pole: \varnothing 4.5 - 10.0 mm (0.177 - 0.39 in)

Mating cycles

200, without resistive load
100, without resistive load $I_N = 16$ A, tested (1.5 mm²/AWG 16)

Mating and unmating forces (socket and plug)

Mating force: approx. 10 – 50 N (depends on number of poles)
Unmating force when not locked: approx. 10 - 50 N (depends on number of poles)
Retention force when locked: > 80 N

Protection against mismating

All WINSTA components are 100% protected against mismating in terms of:
a.) plugging different number of poles
b.) plugging when turned by 180°
c.) plugging when laterally staggered
d.) plugging one pole

Locking levers

All products for fixed installations (snap-in versions for lighting fixtures or devices, and distribution connector versions) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for „flying leads“ (plug/socket).

Materials

Connector material
Insulating parts: Polyamide 6.6 V0, halogen-free (except cable)
Contacts: Copper or copper alloy, surface-treated
Clamping spring: Stainless steel

Continuous service temperature

$\leq 85^\circ\text{C}$
PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free)
Insulating parts for temperatures $\leq 105^\circ\text{C}$

General

First make/last break earth contact,
no WINSTA product is compatible with any other connector system available on the market

Fire load

On request

Rated voltage	250 V/4 kV/3 acc. to IEC 60664 3-pole 400 V/6 kV/3 acc. to IEC 60664 4- and 5-pole Air and creepage distance ≥ 5.5 mm/0.216 in to accessible surfaces
Rated current	Max. 25 A, depending on the conductor cross section
Connectable conductor cross section	0.5 mm ² to 2.5 mm ² (AWG 20 - 14) solid, stranded and fine-stranded 4 mm ² /AWG 12 solid and fine-stranded
Contact resistance	Approx. 3 m Ω contact resistance Approx. 0.5 m Ω contact transition plug/socket
Approvals	VDE 0628, UL, CCA, LR, GL, DNV
In preparation	EN / IEC 61 535
Degree of protection	in mated condition with strain relief housing: IP 20
Cable diameter	3-pole: \varnothing 4.5 - 8 mm (0.177 - 0.315 in) and \varnothing 8 - 11.5 mm (0.315 - 0.452 in) and \varnothing 9 - 13 mm (0.354 - 0.511 in) 4-pole: \varnothing 9 - 13 mm (0.354 - 0.511 in) 5-pole: \varnothing 5 - 9 mm (0.196 - 0.354 in) and \varnothing 9 - 13 mm (0.354 - 0.511 in) and \varnothing 11.5 - 16.5 mm (0.452 - 0.649 in) 6-pole: \varnothing 8.5 - 13.5 mm (0.334 - 0.531 in)
Mating cycles	200, without resistive load 100, without resistive load $I_N = 25$ A, tested (4 mm ² /AWG 12)
Mating and unmating forces (socket and plug)	Mating force: approx. 30 – 70 N (depends on number of poles) Unmating force when not locked: 30 – 70 N (depends on number of poles) Retention force when locked: > 80 N
Protection against mismating	All WINSTA components are 100% protected against mismating in terms of: a.) Plug-in of different number of poles b.) plugging when turned by 180° c.) plugging when laterally staggered d.) plugging one pole
Locking levers	All products for fixed installations (snap-in versions for lighting fixtures or devices, all distribution connector and PCB versions) are equipped with locking levers ex-factory, so that the plugs or sockets are always locked. Additional locking levers are only required for „flying leads“ (plug/socket).
Materials	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel
Continuous service temperature	$\leq 85^\circ\text{C}$ PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free) Insulating parts for temperatures $\leq 105^\circ\text{C}$
General	First make/last break earth contact, no WINSTA product is compatible with any other connector system available on the market
Fire load	on request

Rated voltage

400 V/6 kV/3 acc. to IEC 60664

Air and creepage distance ≥ 5.5 mm/0.216 in to accessible surfaces (protection class II)

Rated current

Max. 32 A, depending on the conductor cross section

Connectable conductor cross section

0.5 mm² to 4 mm² (AWG 20 - 12) solid, stranded and fine-stranded
6 mm²/AWG 10 solid and fine-stranded

Contact resistance

Approx. 3 m Ω contact resistance

Approx. 0.5 m Ω contact transition plug/socket

Approvals

Planned approvals: UL, CCA, LR, GL, DNV

Pending

EN / IEC 61 535

Degree of protection

in mated condition with strain relief housing: IP 20

Cable diameter

5-pole: \varnothing 13 - 18 mm (0.51 - 0.708 in)

Mating cycles

100, without resistive load

50, with resistive load $I_N = 35$ A, tested (6 mm²/AWG 10)

Mating and unmating forces

(socket and plug)

Mating force: approx. 30 – 70 N (depends on number of poles)

Unmating force when not locked: approx. 30 – 70 N (depends on number of poles)

Retention force when locked: > 80 N

Protection against mismating

All WINSTA components are 100% protected against mismating in terms of:

- Plug-in of different number of poles
- plugging when turned by 180°
- plugging when laterally staggered
- plugging one pole

Locking levers

Sockets are equipped with locking levers ex-factory, so that the plugs are always locked.

Materials

Connector material

Insulating parts: Polyamide 6.6 V0, halogen-free (except cable)

Contacts: Copper or copper alloy, surface-treated

Clamping spring: Stainless steel

Continuous service temperature

$\leq 85^\circ\text{C}$

PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free)

Insulating parts for temperatures $\leq 105^\circ\text{C}$

General

First make/last break earth contact,

no WINSTA product is compatible with any other connector system available on the market

Fire load

On request

Rated voltage	250 V/4 kV/3 acc. to IEC 60664 Air and creepage distance ≥ 5.5 mm/0.216 in to accessible surfaces (protection class II)
Rated current	Max. 20 A, depending on the conductor cross section
Connectable conductor cross section	1.5 mm ² to 2.5 mm ² (AWG 16 - 14) fine-stranded
Contact resistance	Approx. 3 m Ω contact resistance Approx. 0.5 m Ω contact transition plug/socket
Approvals	Planned approvals: VDE 0628, UL, CCA, LR, GL, DNV
Pending	EN / IEC 61 535
Degree of protection	in mated condition with strain relief housing: IP 20
Cable diameter	fixed diameter 3 x 1.5 mm ² /AWG 16, \varnothing 8.2 mm/0.322 in 3 x 2.5 mm ² /AWG 14, \varnothing 10 mm/0.393 in 4 x 1.5 mm ² /AWG 16, \varnothing 9.2 mm/0.362 in
Mating cycles	200, without resistive load 100, without resistive load $I_N = 20$ A, tested (2.5 mm ² /AWG 14)
Mating and unmating forces (socket and plug)	Mating force: approx. 30 – 70 N (depends on number of poles) Unmating force when not locked: 30 – 70 N (depends on number of poles) Retention force when locked: > 80 N
Protection against mismating	All WINSTA components are 100% protected against mismating in terms of: a.) Plug-in of different number of poles b.) plugging when turned in the wrong way round c.) plugging when laterally staggered
Locking levers	Locking levers are generally at the socket
Materials	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel
Continuous service temperature	$\leq 85^\circ\text{C}$ PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free) Insulating parts for temperatures $\leq 105^\circ\text{C}$
General	First make/last break earth contact, no WINSTA product is compatible with any other connector system available on the market
Fire load	On request

● Rated voltage	50 V/0.8 kV/3 Air and creepage distance ≥ 5.5 mm/0.216 in
● Rated current	3 A
● Connectable conductor cross section	0.5 mm ² /AWG 20 solid
● Contact resistance	Approx. 5 m Ω contact resistance
● Approvals	EIB manual
● Degree of protection	in mated condition with strain relief housing: IP 20
● Cable diameter	\varnothing 5 - 7 mm (0.196 - 0.275 in)
● Mating cycles	200
● Mating and unmating forces (socket and plug)	Mating force: approx. 10 – 15 N Unmating force when not locked: approx. 15 – 20 N
● Materials	Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper alloy, surface-treated
● Continuous service temperature	$\leq 85^{\circ}\text{C}$ PVC cable for temperatures $\leq 70^{\circ}\text{C}$ (including halogen-free) Insulating parts for temperatures $\leq 105^{\circ}\text{C}$
● Fire load	On request

Rated voltage	250 V/4 kV/3 acc. to IEC 60664 3-pole 400 V/6 kV/3 acc. to IEC 60664 5-pole Air and creepage distance ≥ 5.5 mm/0.216 in
Rated current	Max. 25 A, depending on the conductor cross section
Connectable conductor cross section	0.5 mm ² to 2.5 mm ² (AWG 20 - 14) solid, stranded and fine-stranded 4 mm ² /AWG 12 solid and fine-stranded
Contact resistance	Approx. 3 m Ω contact resistance Approx. 0.5 m Ω contact transition plug/socket
Approvals	Planned approvals: UL, CCA, LR, GL, DNV
Pending	EN / IEC 61 535
Degree of protection	in mated condition with strain relief housing: IP 20
Cable diameter	5-pole strain relief: \varnothing 8 - 13 mm (0.315 - 0.511 in) 5-pole strain relief: \varnothing 11.5 - 16.5 mm (0.452 - 0.649 in)
Mating cycles	200, without resistive load 100, without resistive load $I_N = 25$ A, tested (4 mm ² /AWG 12)
Mating and unmating forces (socket and plug)	Mating force: approx. 30 – 70 N (depends on number of poles) Unmating force when not locked: approx. 30 – 70 N (depends on number of poles) Retention force when locked: > 80 N
Protection against mismatching	All WINSTA components are 100% protected against mismatching in terms of: a.) Plug-in of different number of poles b.) plugging when turned by 180° c.) plugging when laterally staggered d.) plugging one pole
Locking levers	All versions are equipped with locking levers ex-factory, so that the plugs are always locked.
Materials	Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel
Continuous service temperature	$\leq 85^\circ\text{C}$ PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free) Insulating parts for temperatures $\leq 105^\circ\text{C}$
General	First make/last break earth contact, no WINSTA product is compatible with any other connector system available on the market
Fire load	On request

10 Approvals – User Guide

Updated approvals can be found at www.wago.com



• 1: Select "Country"



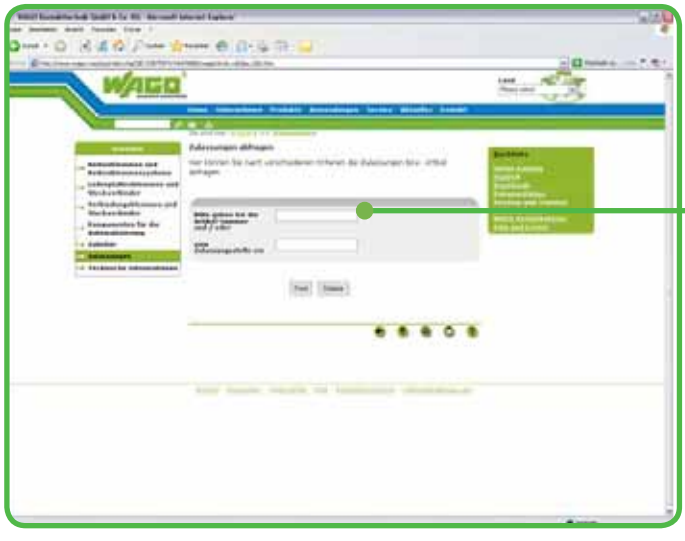
e.g., Germany



• 2: Select "Products"



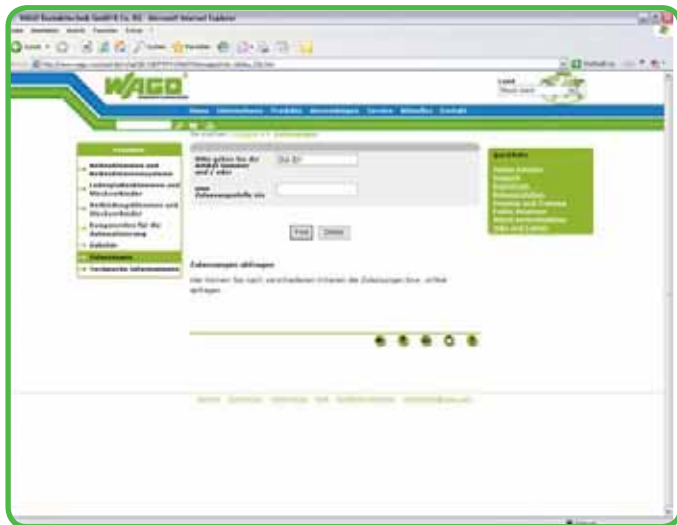
Select "Approvals"



• 3: "Search for Approvals"



Here, you can search the approvals and items according to defined criteria.



• 4: Entry Options

- a) Item Number
e.g., 264-301
- b) Certification Agency
e.g., "UL"
- c) Certification Agency and
Item Number Range; e.g.,
"280 - 6" and "UL"

Artikel No.	Zulassungs- stelle	Zulassungs Nr.	Spannung [V]	Strom [A]	Querschnitt [mm ²]
264-301	DNV	E7569	800	24	2,5
264-301	GL	17295-00HH	800	24	2,5
264-301	KEMA	2079569.04	800		2,5
264-301	KR	HMB05880-EL002	800	24	
264-301	LR	91/20242(E3)	800	24	2,5
264-301	RMR	11130002	800	24	2,5
264-301	RosTest	B09523	800	24	2,5
264-301	SEMKO	9404012			2,5
264-301	UL	E45172	600	20	28-12
264-301	VDE	3945ÜG,BL.2	660		2,5

Search Result a) Item Number:

All approvals related to that product will be displayed.

Artikel No.	Zulassungs- stelle	Zulassungs Nr.	Spannung [V]	Strom [A]	Querschnitt [mm ²]
2001-1201	UL	E45172	600	15	22-14
2001-1202	UL	E45172	600	15	22-14
2001-1203	UL	E45172	600	15	22-14
2001-1204	UL	E45172	600	15	22-14
2001-1205	UL	E45172	600	15	22-14
2001-1206	UL	E45172	600	15	22-14
2001-1207	UL	E45172			22-14
2001-1301	UL	E45172	600	15	22-14
2001-1302	UL	E45172	600	15	22-14
2001-1303	UL	E45172	600	15	22-14

Search Result b) Certification Agency:

All products approved by that agency will be displayed.

Artikel No.	Zulassungs- stelle	Zulassungs Nr.	Spannung [V]	Strom [A]	Querschnitt [mm ²]
280-601	UL	E45172	600	20	28-12
280-602	UL	E45172	600	20	28-12
280-603	UL	E45172	600	20	28-12
280-604	UL	E45172	300	15	28-12
280-606	UL	E45172	300	10	28-12
280-607	UL	E45172			28-12
280-610	UL	E45172	300	10	28-12
280-612	UL	E45172	300	15	28-12
280-616	UL	E45172	300	10	28-12
280-621	UL	E45172	600	15	28-12

Search Result c) Certification Agency and Item Numbers:

The whole range of products approved by that agency will be displayed.

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