

• **WINSTA®**

Full Line Catalog 2008/2009

**ELECTRICAL
INTERCONNECTIONS**

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

Rail-Mounted Terminal Blocks	
X-COM®-SYSTEM	
Terminal Strips	
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Contents FULL LINE CATALOG W4, Volume 2 • PCB Terminal Blocks and Connectors

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

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Contents Full Line Catalog 2008/2009 • Interface Modules

Interface Modules	
Sensor/Actuator Boxes IP67	
Radio Technology	
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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

8
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Reference Projects

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

9
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Technical Section

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

10

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



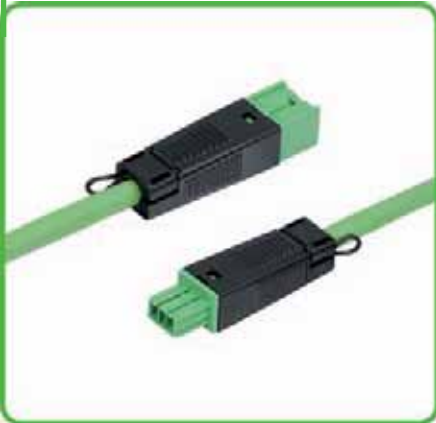
Enhance The System

0
3

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®- The perfect connection!

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®S
connection



KNX supply module, 2-pole,
for data cable

Ideas Perfectly Detailed

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5

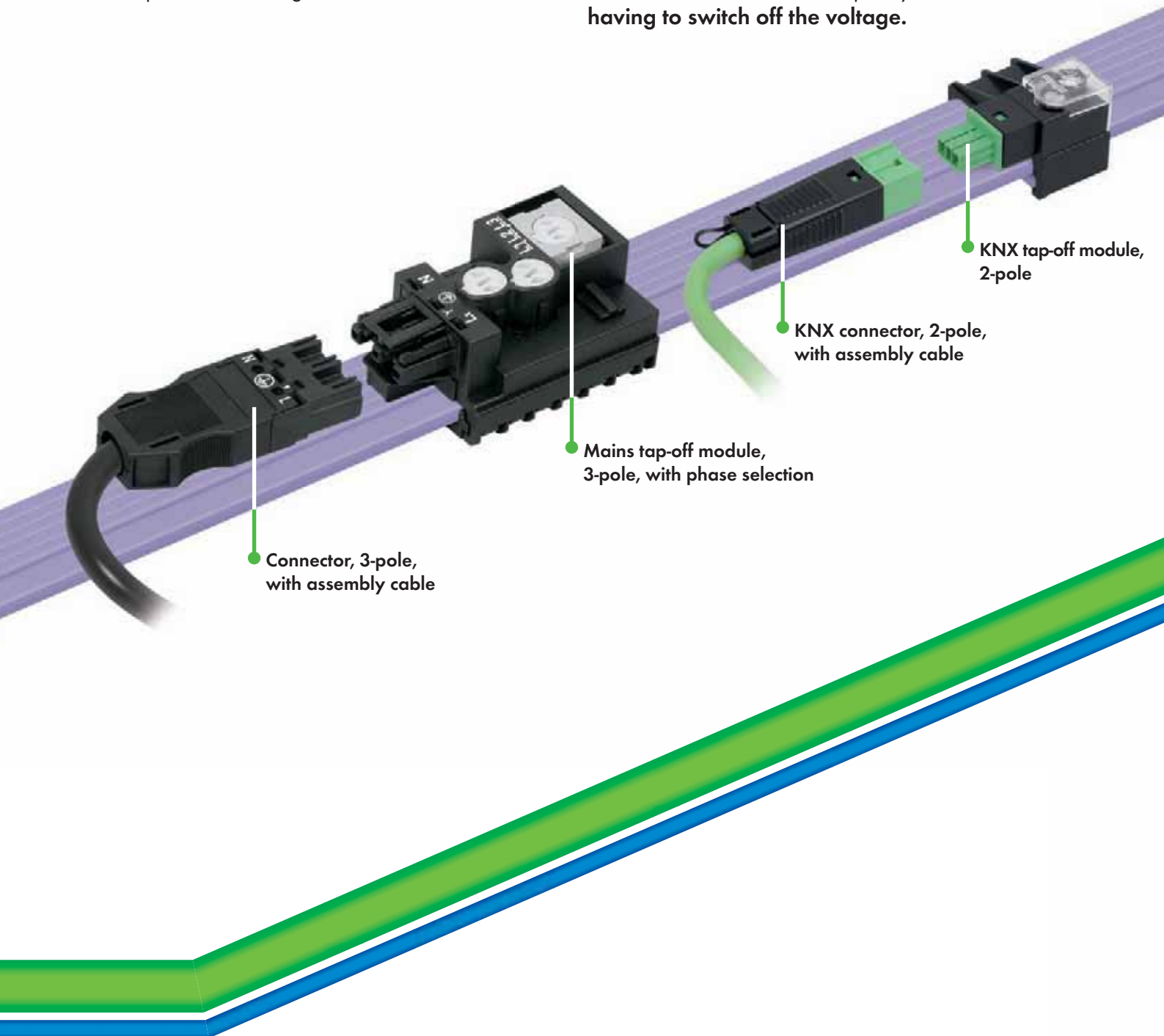
Only Choice for Perfect Building Installations

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**.



WINSTA®- The perfect connection!

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 mm ² /AWG 16	up to 16 A
WINSTA® MIDI	up to 4 mm ² /AWG 12	up to 25 A
WINSTA® MAXI	up to 6 mm ² /AWG 10	up to 32 A
WINSTA® IDC	up to 16 mm ² /AWG 6	up to 76 A

for All Applications

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7

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



WINSTA® - The perfect connection!



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

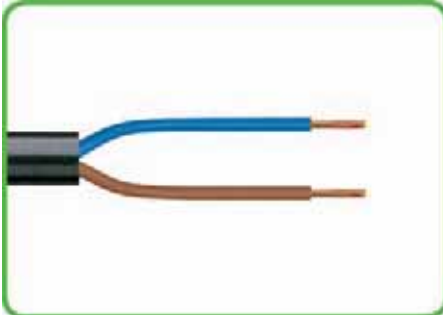
Handling WINSTA® MINI 890 Series

1

9

1

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.

WINSTA® - The perfect connection!



Sockets and Plugs, 2 Poles

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, 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

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)
Operating tool, insulated, 2-way						
		890-392	1		890-392	1

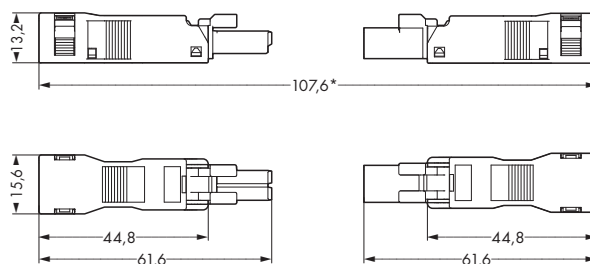
Info

Dimensions

- 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

A diagram showing a rectangular area. The vertical side is labeled 14 and the horizontal side is labeled 17,8. The rectangle is centered within a larger, irregular, cloud-like shape.



Accessories

Lockout caps, for cut-out




black	890-642	100
white	890-692	100

black	890-642	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

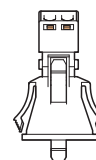
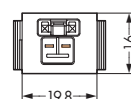
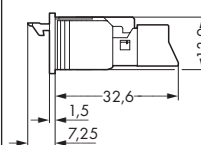
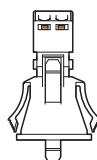
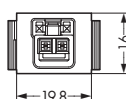
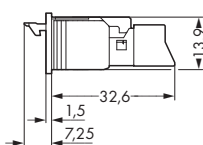
890-392 1890-392 1

Info

Dimensions (in mm)

- | | | |
|---------|----------|---------|
| ● 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



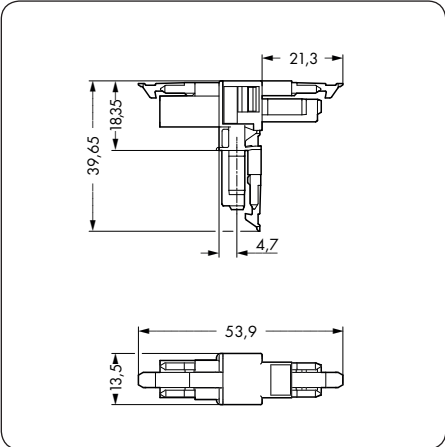
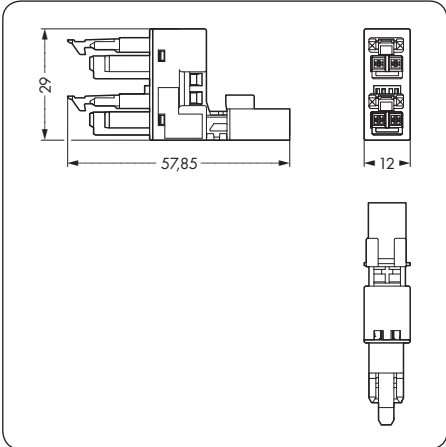
Distribution Connectors, 2 Poles


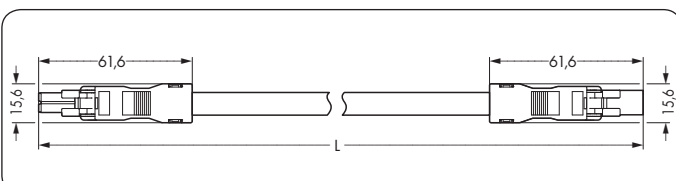

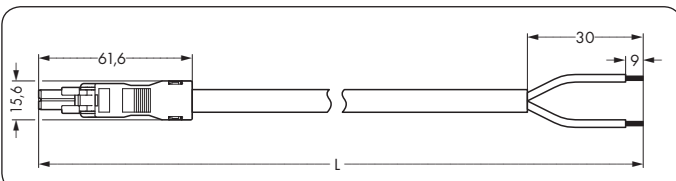

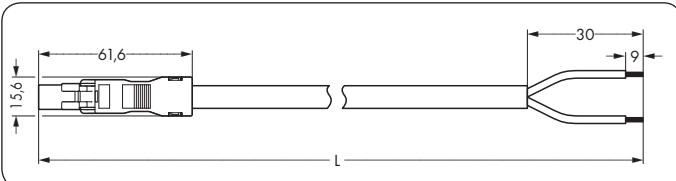

250 V/4 kV/3 16 A	250 V/4 kV/3 16 A
⌚ Approvals	⌚ Approvals



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			

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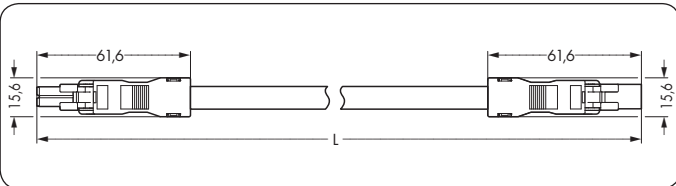

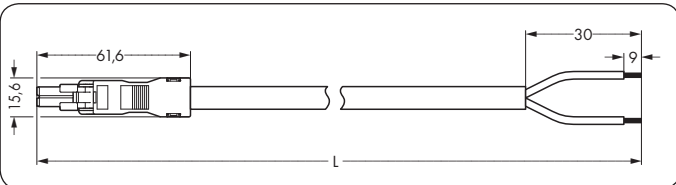

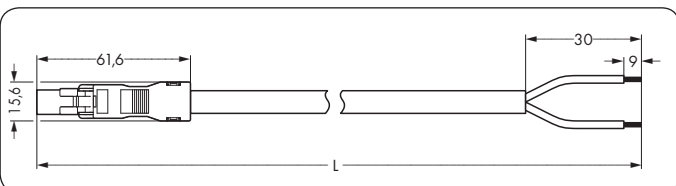

	PVC H05VV-F 2x1 halogen-free H05Z1Z1-F 2x1				
	250 V/4 kV/3 10 A				
	Wire ends bonded 9 mm / 0.35 in				
	① Approvals				
Interconnecting cables, socket - plug	Length	Item no. black	Item no. white	Item no. black	Item no. white
 	Coding A ● ○				
	PVC		halogen-free		
	1 m	891-8992/005-101	.../005-102	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	Accessories				
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	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

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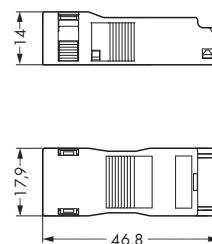
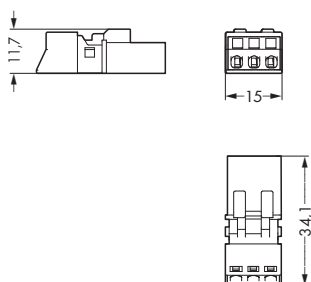
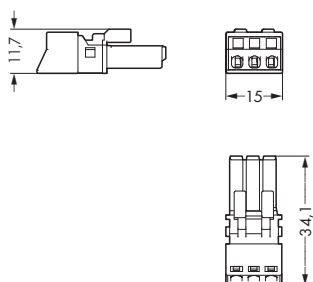
		PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5 250 V/4 kV/3 16 A Wire ends bonded 9 mm / 0.35 in ① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black	Item no. white	Item no. black	Item no. white
 		Coding A ● ○				
		PVC		halogen-free		
		1 m	891-8992/006-101	.../006-102	891-8992/016-101	.../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						

WINSTA® - The perfect connection!

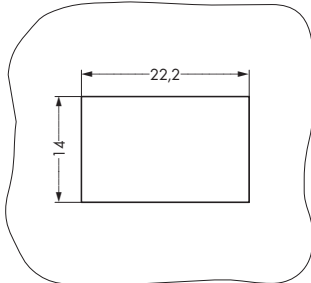
Accessories

* Overall length of the connectors in mated condition

<p>0.25 – 1.5 mm² ①</p> <p>250 V/4 kV/3</p> <p>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</p> <p>250 V/4 kV/3</p> <p>16 A</p>  <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 - 16</p>	<p>Snap-on type strain relief housing for</p> <ul style="list-style-type: none"> - 3-pole sockets - 3-pole plugs
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[illegible]

Cut-out dimensions	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
Sheet thickness: 0.5 mm to 2 mm (0.02 - 0.078 in) Tolerance of the cut-out: + 0.1 mm / 0.0039 in	9 mm / 0.35 in		9 mm / 0.35 in	
	② Approvals		② Approvals	



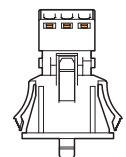
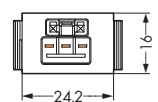
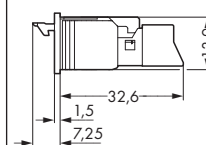
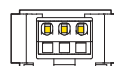
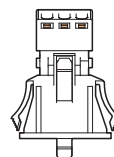
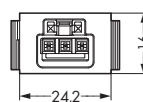
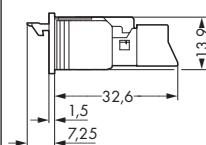
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 3 poles, with CAGE CLAMP®S connection	Sockets			Plugs		
	black	890-703	● 50	black	890-713	● 50
	white	890-723	○ 50	white	890-733	○ 50
	gray	890-743	● 50	gray	890-753	● 50
Accessories						
Lockout caps,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

1

19

1

250 V/4 kV/3
16 A

② Approvals

250 V/4 kV/3
16 A

② Approvals



Connector with shield termination



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



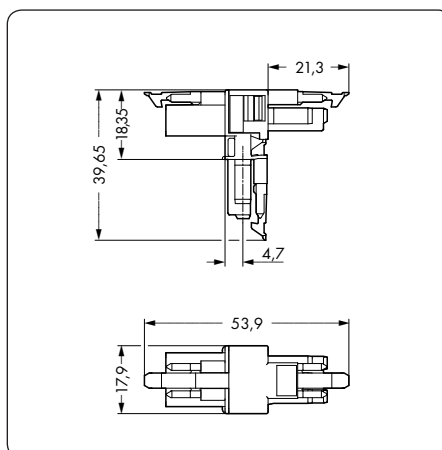
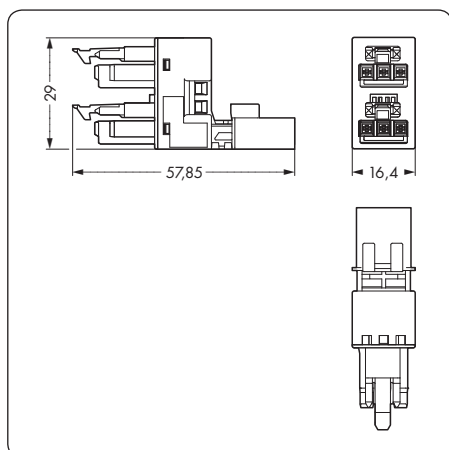
Push the shield connecting plate into the connector until fully inserted




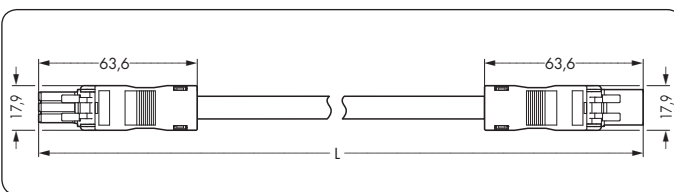

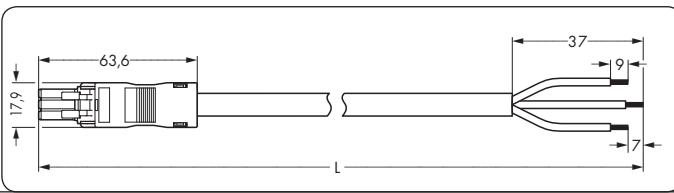

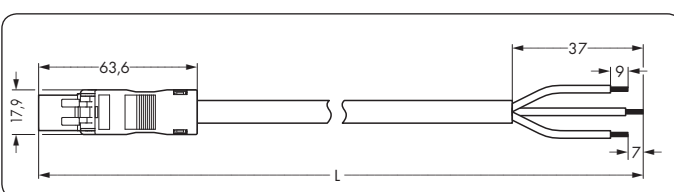

First insert the wired connector into the strain relief housing, then snap the clamp and cover.

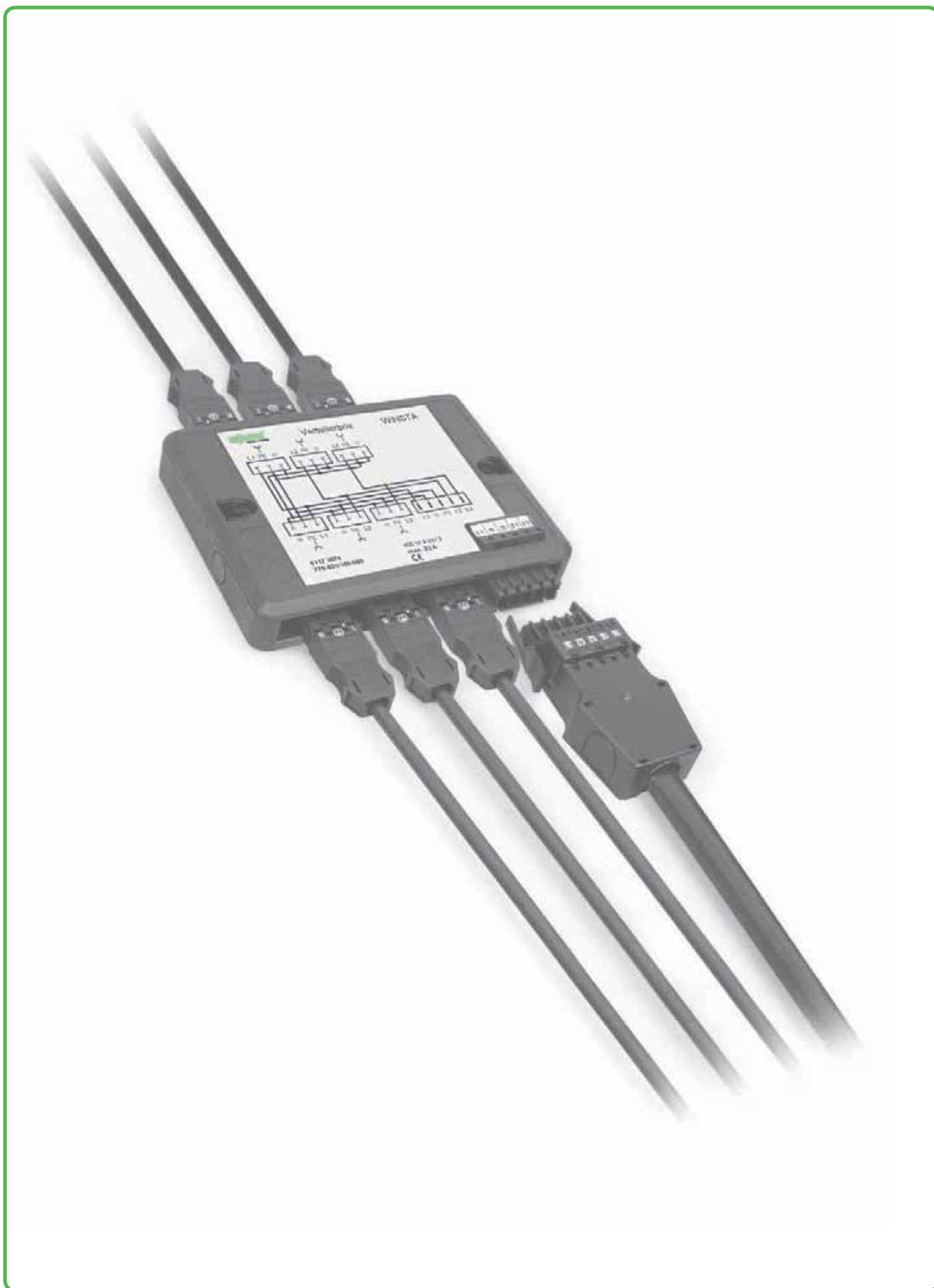
Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
h-distribution connectors, unidirectional, plug / socket - socket			T-distribution connectors, 1 x plug / 2 x socket		
black	890-634	50	black	890-606	25
white	890-684	50	white	890-656	25
for "flying leads", with 3rd locking lever			for "flying leads", 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			

--



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		PVC halogen-free				H05VV-F 3G1 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		Accessories							
<div>① Approval data can be found in the online catalog at www.wagocatalog.com</div> <div>Other cables on request</div> <div>● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N)</div> <div>Please find some information on the different codings on pages 146 and 147</div>		Locking levers, tool operated,							
		for "flying leads"							
				black	890-111	100 (2 x 50)			
				white	890-131	100 (2 x 50)			
		Lengths				Pack.-unit			
		1 m				50			
		2, 3, 4 m				25			
		5, 6 m				15			
		7, 8 m				10			
		Other lengths on request							



**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

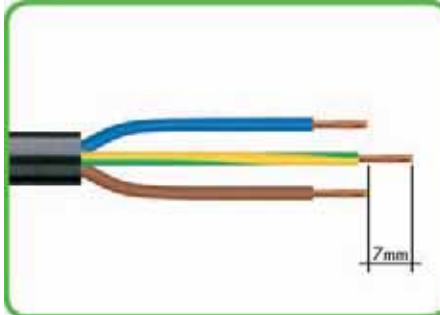
2

23

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.



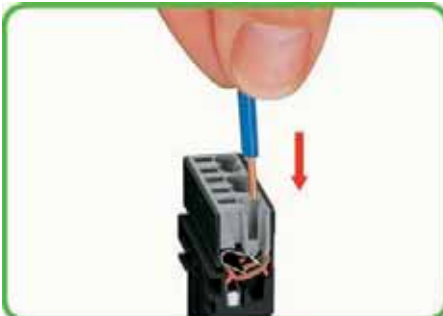
1. Strip length, outer insulation = 55 mm / 2.16 in
2. Strip length = 9 mm / 0.35 in
3. PE conductor protruding = 7 mm / 0.27 in

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.

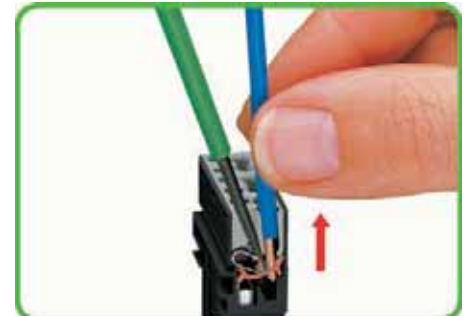
Conductor connection with CAGE CLAMP® S



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.

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

-

* Overall length of the connectors in mated condition

2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 25 A	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 25 A	2 x 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	770-203	● 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



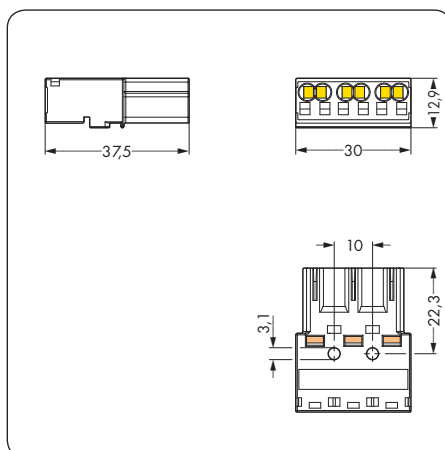
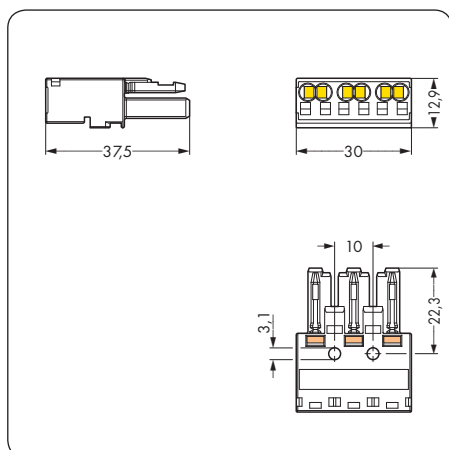
Snap on locking lever. Observe direction!



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



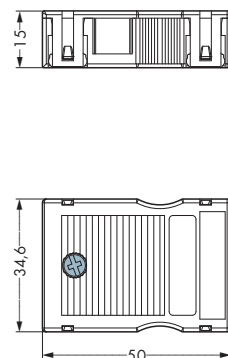
Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.



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

-
- Technical drawing of the 1000x500x150 mm storage box. The top view shows a rectangular box with a width of 500 mm and a depth of 346 mm. The side view shows a height of 150 mm. The box features a lid with a handle and a latch mechanism.



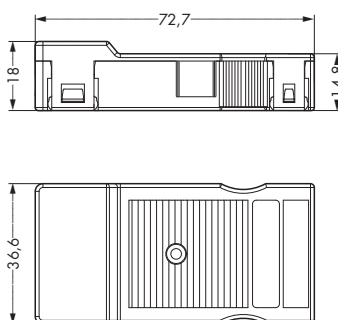
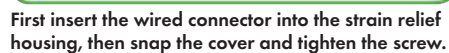
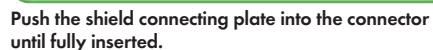
1 Approvals



1 Approvals






Apply the shield to the rubber cable.

Strip length, outer insulation	= 55 mm / 2.16 in
Shield length	= 10 mm / 0.39 in



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



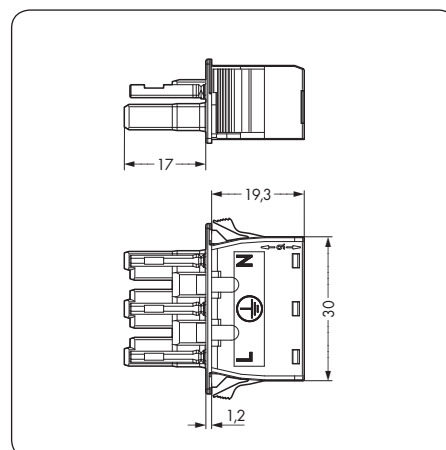
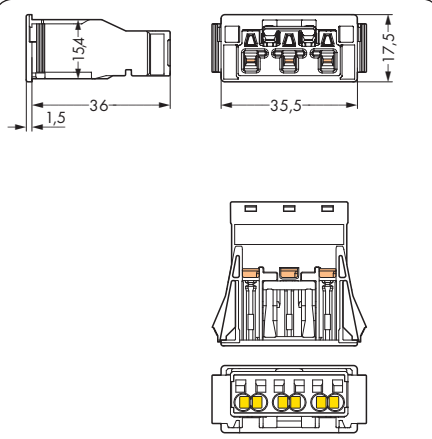
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Connectors, snap-in device connection, 3 poles, with CAGE CLAMP®S connection	Sockets			Sockets with protruding coding system		
	black	770-703	● 100	black	770-703/009-000	● 100
	white	770-723	○ 100	white	770-723/009-000	○ 100
	gray	770-743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

- 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)

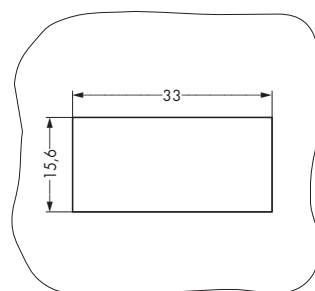
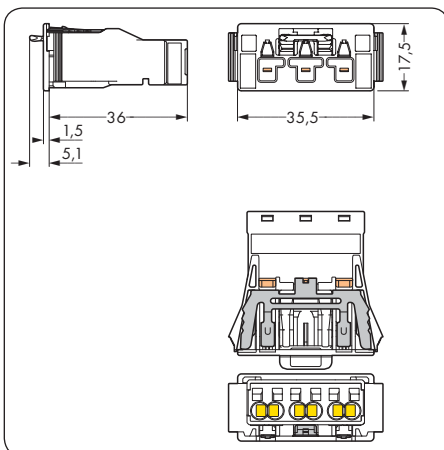
Please find some information on the different codings on pages 146 and 147



② Approvals

100

Dimensions (in mm) cutout



Panel thickness: 0.5 mm - 2 mm
Tolerance of the panel cutout: + 0.1 mm

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

① 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
		770-1373/146-000 ●	50			
		770-1373/147-000 ●	50			
		770-1373/148-000 ●	50			
		770-1373/149-000 ●	50			
				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						
						

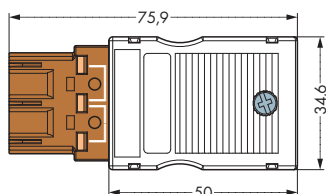
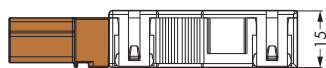
Info	Dimensions (in mm)	Use
------	--------------------	-----

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).

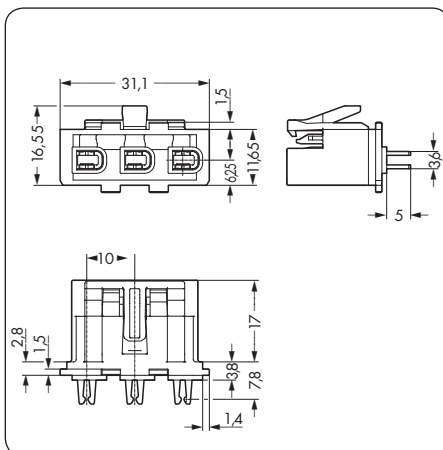
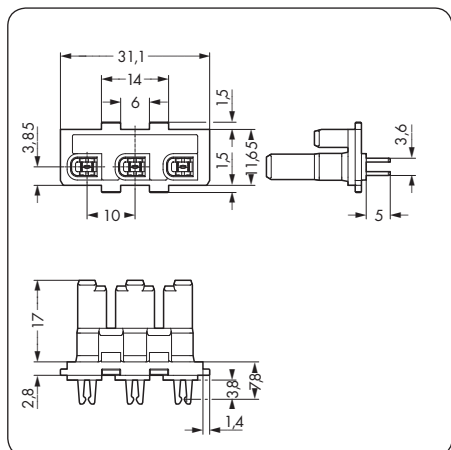
Device Connectors, 3 Poles

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

[illegible]

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

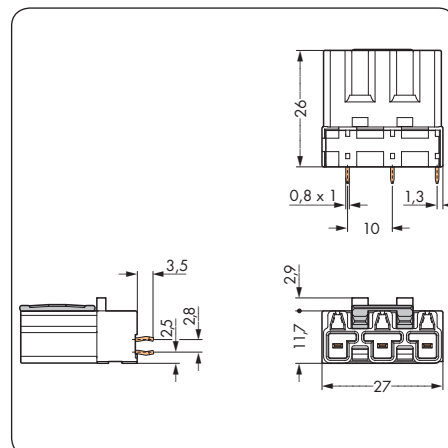
Dimensions (in mm)



WINSTA® - The perfect connection!

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

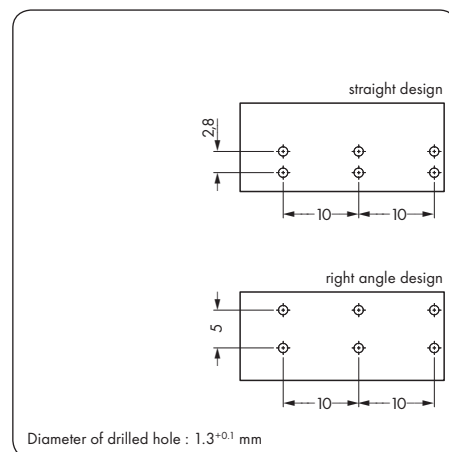
- Please find some information on the different codings on pages 146 and 147



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	$\underline{\Delta}1.5\text{ mm}^2$ / AWG 16
20 A	70 μm one side	7 mm	$\underline{\Delta}2.5\text{ mm}^2$ / AWG 14
25 A	105 μm both sides	7 mm	$\underline{\Delta}4\text{ mm}^2$ / AWG 12



Hole patterns



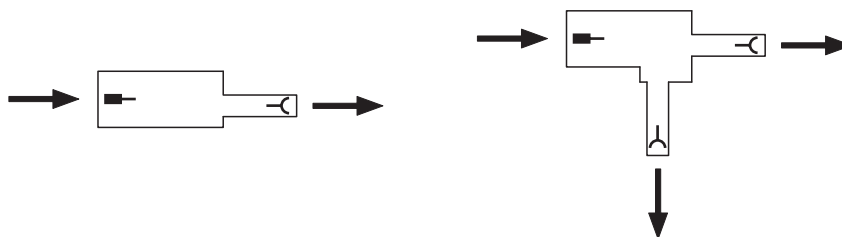
Intermediate Couplers and T-Distribution Connectors,
3 Poles

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



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

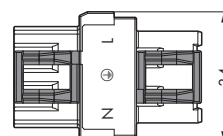
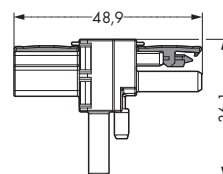
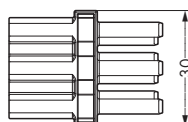
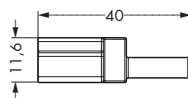
Info	Dimensions (in mm)
------	--------------------



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

2

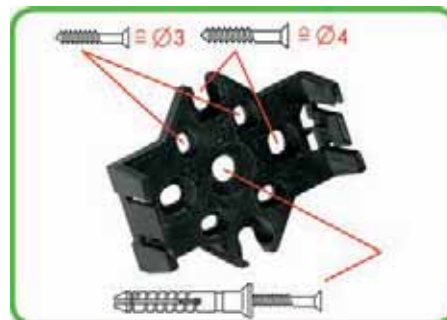
35

250 V/4 kV/3
25 A

① Approvals

250 V/4 kV/3
25 A

① Approvals



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

2

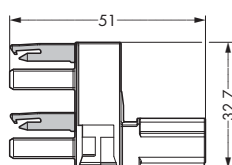
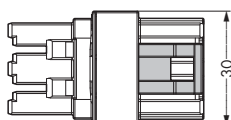
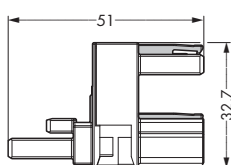
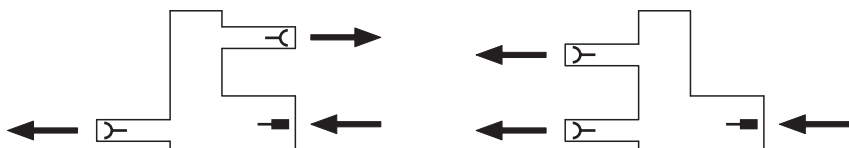
Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
h-distribution connectors, bi-directional, plug - socket / socket			h-distribution connectors, unidirectional, plug / socket - socket		
black	770-633	50	black	770-634	50
white	770-683	50	white	770-684	50
			red	770-934	50
for "flying leads", with 3rd 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
			red	770-936	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.



WINSTA® - The perfect connection!

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



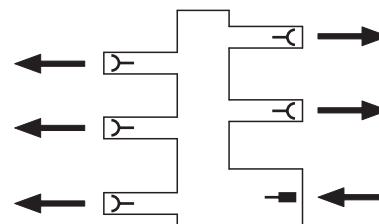
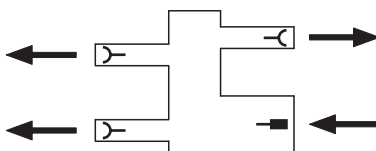
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Distribution connectors, pluggable	Distribution connectors, 3-way, 1 x plug / 3 x socket			Distribution connectors, 5-way, 1 x plug / 5 x socket		
	black	770-607	25	black	770-608	25
	white	770-657	25	white	770-658	25
	red	770-907	25			

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
	black	770-601	250	black	770-601	250
 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)

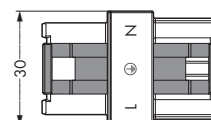
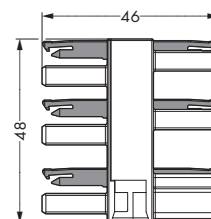
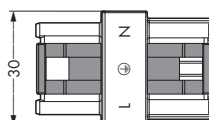
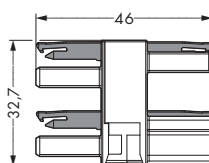


① Approval data can be found in the online catalog at www.wagocatalog.com

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

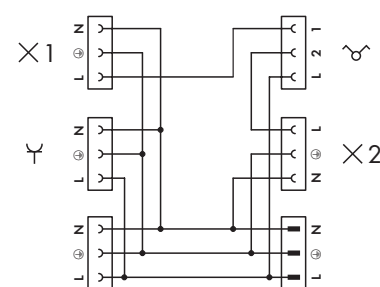


250 V/4 kV/3
25 A

① Approvals

250 V/4 kV/3
25 A

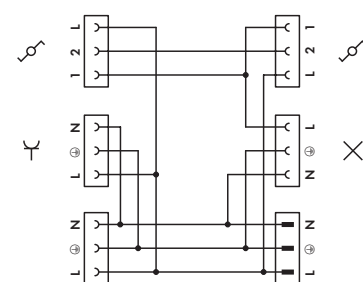
① Approvals



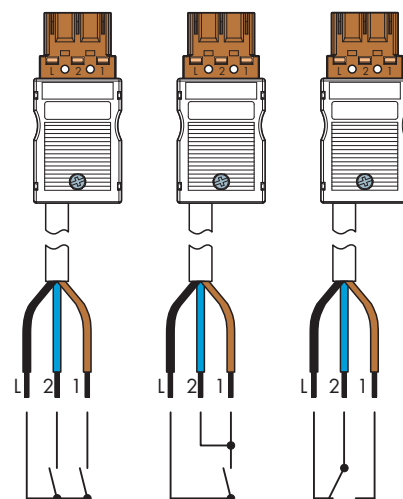
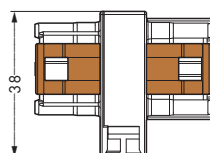
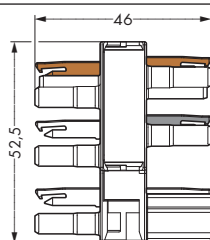
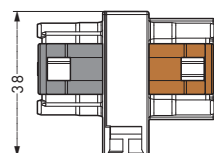
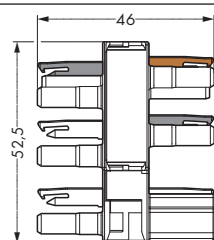
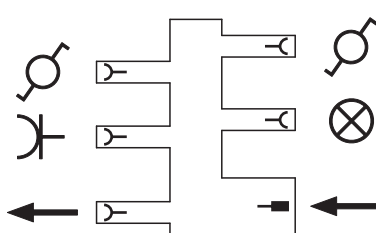
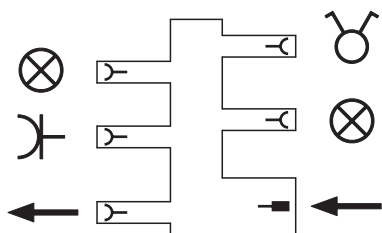
Internal circuit of the 770-637 distribution connector for single-pole switch or series circuits.

2

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




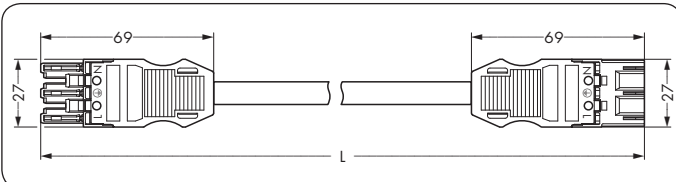

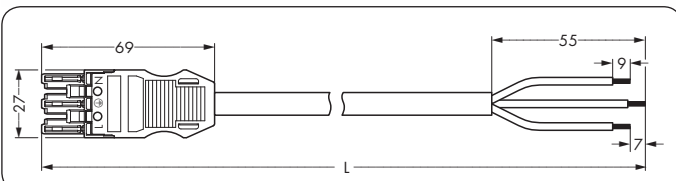

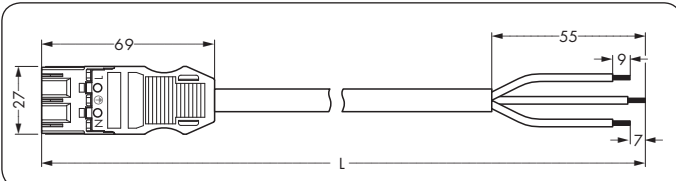
Internal circuit of the 770-638 distribution connector for single-pole switch or two-way circuits.





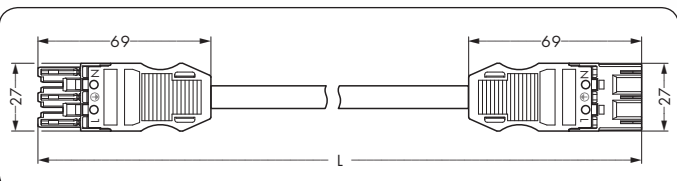




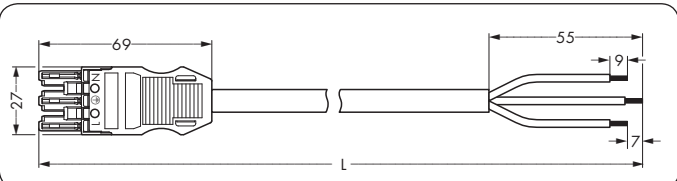












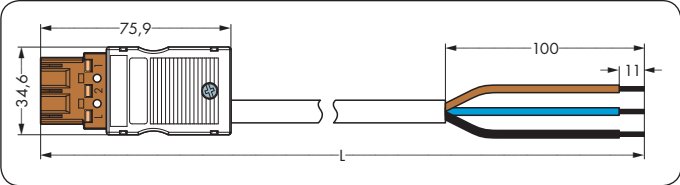

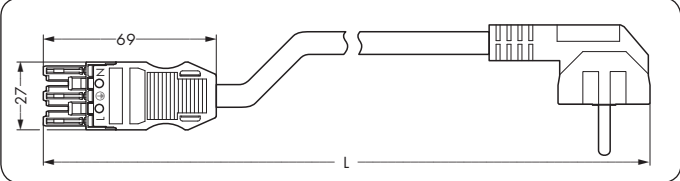

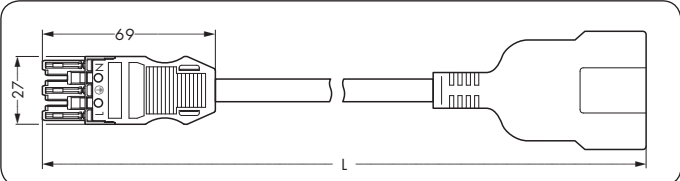
Cable assembly with coding S for connection to 770-637 and 770-638 distribution connectors see page 40.




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


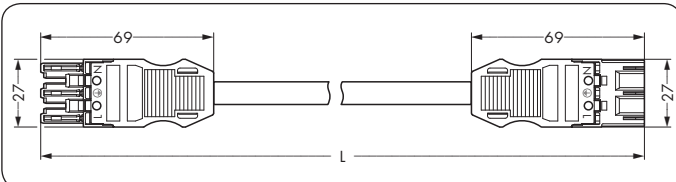

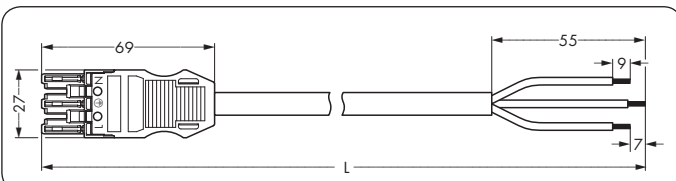

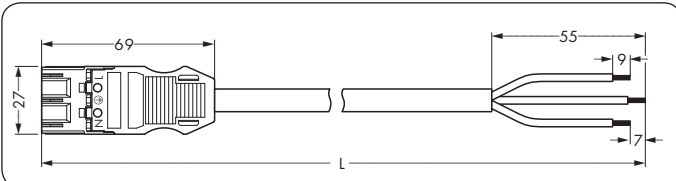
Shorting plug see page 30





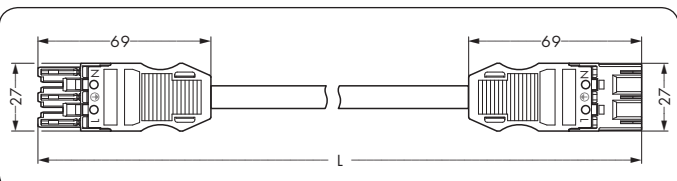




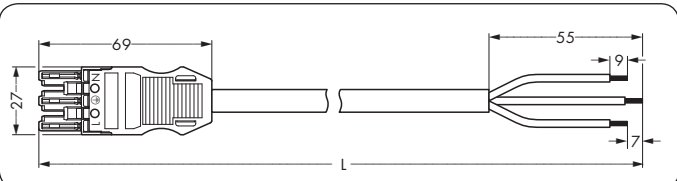









		PVC halogen-free				H05VV-F 3G1.5 H05Z1Z1-F 3G1.5				
		250 V/4 kV/3				16 A				
		Wire ends bonded 9 mm/0.35 in				① Approvals				
Interconnecting cables, socket - plug		Length	Item no. black		Item no. white		Item no. black		Item no. white	
 		Coding A ● ○								
		PVC				halogen-free				
		1 m	771-9993/006-101	.../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				
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	771-9993/106-101	.../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				
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	771-9993/206-101	.../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				
Info		Accessories								
<div>① Approval data can be found in the online catalog at www.wagocatalog.com</div> <div>Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!</div> <div>Other cables on request</div> <div>● black Coding A (L ⊕ N)</div> <div>○ white Coding A (L ⊕ N)</div> <div>● red Coding P (L ⊕ N)</div> <div>Please find some information on the different codings on pages 146 and 147</div>		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		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td colspan="3"> Coding P  </td></tr> <tr> <td></td><td>PVC</td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/006-101</td><td>771-9973/016-101</td></tr> <tr><td>2 m</td><td>771-9973/006-201</td><td>771-9973/016-201</td></tr> <tr><td>3 m</td><td>771-9973/006-301</td><td>771-9973/016-301</td></tr> <tr><td>4 m</td><td>771-9973/006-401</td><td>771-9973/016-401</td></tr> <tr><td>5 m</td><td>771-9973/006-501</td><td>771-9973/016-501</td></tr> <tr><td>6 m</td><td>771-9973/006-601</td><td>771-9973/016-601</td></tr> <tr><td>7 m</td><td>771-9973/006-701</td><td>771-9973/016-701</td></tr> <tr><td>8 m</td><td>771-9973/006-801</td><td>771-9973/016-801</td></tr> </table>	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
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		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td colspan="3"> Coding P  </td></tr> <tr> <td></td><td>PVC</td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/106-101</td><td>771-9973/116-101</td></tr> <tr><td>2 m</td><td>771-9973/106-201</td><td>771-9973/116-201</td></tr> <tr><td>3 m</td><td>771-9973/106-301</td><td>771-9973/116-301</td></tr> <tr><td>4 m</td><td>771-9973/106-401</td><td>771-9973/116-401</td></tr> <tr><td>5 m</td><td>771-9973/106-501</td><td>771-9973/116-501</td></tr> <tr><td>6 m</td><td>771-9973/106-601</td><td>771-9973/116-601</td></tr> <tr><td>7 m</td><td>771-9973/106-701</td><td>771-9973/116-701</td></tr> <tr><td>8 m</td><td>771-9973/106-801</td><td>771-9973/116-801</td></tr> </table>	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
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		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td colspan="3"> Coding P  </td></tr> <tr> <td></td><td>PVC</td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/206-101</td><td>771-9973/216-101</td></tr> <tr><td>2 m</td><td>771-9973/206-201</td><td>771-9973/216-201</td></tr> <tr><td>3 m</td><td>771-9973/206-301</td><td>771-9973/216-301</td></tr> <tr><td>4 m</td><td>771-9973/206-401</td><td>771-9973/216-401</td></tr> <tr><td>5 m</td><td>771-9973/206-501</td><td>771-9973/216-501</td></tr> <tr><td>6 m</td><td>771-9973/206-601</td><td>771-9973/216-601</td></tr> <tr><td>7 m</td><td>771-9973/206-701</td><td>771-9973/216-701</td></tr> <tr><td>8 m</td><td>771-9973/206-801</td><td>771-9973/216-801</td></tr> </table>	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
Length	Item no. black	Item no. black																																	
Coding P 																																			
	PVC	halogen-free																																	
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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







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)
		Locking levers , tool operated,
Other lengths on request		for "flying leads"
		 black 770-111 100 (4 x 25)
		white 770-131 100 (4 x 25)
		Coding pin , for plug
		 gray 770-401 100

		PVC halogen-free				H05VV-F 3G2.5 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		Accessories					
<div>① Approval data can be found in the online catalog at www.wagocatalog.com</div> <div>Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!</div> <div>Other cables on request</div> <div>● black Coding A (L ⊕ N)</div> <div>○ white Coding A (L ⊕ N)</div> <div>● red Coding P (L ⊕ N)</div> <div>Please find some information on the different codings on pages 146 and 147</div>		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		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td>Coding P </td><td></td><td></td></tr> <tr> <td>PVC</td><td></td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/007-101</td><td>771-9973/017-101</td></tr> <tr><td>2 m</td><td>771-9973/007-201</td><td>771-9973/017-201</td></tr> <tr><td>3 m</td><td>771-9973/007-301</td><td>771-9973/017-301</td></tr> <tr><td>4 m</td><td>771-9973/007-401</td><td>771-9973/017-401</td></tr> <tr><td>5 m</td><td>771-9973/007-501</td><td>771-9973/017-501</td></tr> <tr><td>6 m</td><td>771-9973/007-601</td><td>771-9973/017-601</td></tr> <tr><td>7 m</td><td>771-9973/007-701</td><td>771-9973/017-701</td></tr> <tr><td>8 m</td><td>771-9973/007-801</td><td>771-9973/017-801</td></tr> </table>	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
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5 m	771-9973/007-501	771-9973/017-501																																	
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Connecting cables, socket - free end		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td>Coding P </td><td></td><td></td></tr> <tr> <td>PVC</td><td></td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/107-101</td><td>771-9973/117-101</td></tr> <tr><td>2 m</td><td>771-9973/107-201</td><td>771-9973/117-201</td></tr> <tr><td>3 m</td><td>771-9973/107-301</td><td>771-9973/117-301</td></tr> <tr><td>4 m</td><td>771-9973/107-401</td><td>771-9973/117-401</td></tr> <tr><td>5 m</td><td>771-9973/107-501</td><td>771-9973/117-501</td></tr> <tr><td>6 m</td><td>771-9973/107-601</td><td>771-9973/117-601</td></tr> <tr><td>7 m</td><td>771-9973/107-701</td><td>771-9973/117-701</td></tr> <tr><td>8 m</td><td>771-9973/107-801</td><td>771-9973/117-801</td></tr> </table>	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
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Coding P 																																			
PVC		halogen-free																																	
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2 m	771-9973/107-201	771-9973/117-201																																	
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4 m	771-9973/107-401	771-9973/117-401																																	
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Connecting cables, plug - free end		<table> <tr> <th>Length</th><th>Item no. black</th><th>Item no. black</th></tr> <tr> <td>Coding P </td><td></td><td></td></tr> <tr> <td>PVC</td><td></td><td>halogen-free</td></tr> <tr><td>1 m</td><td>771-9973/207-101</td><td>771-9973/217-101</td></tr> <tr><td>2 m</td><td>771-9973/207-201</td><td>771-9973/217-201</td></tr> <tr><td>3 m</td><td>771-9973/207-301</td><td>771-9973/217-301</td></tr> <tr><td>4 m</td><td>771-9973/207-401</td><td>771-9973/217-401</td></tr> <tr><td>5 m</td><td>771-9973/207-501</td><td>771-9973/217-501</td></tr> <tr><td>6 m</td><td>771-9973/207-601</td><td>771-9973/217-601</td></tr> <tr><td>7 m</td><td>771-9973/207-701</td><td>771-9973/217-701</td></tr> <tr><td>8 m</td><td>771-9973/207-801</td><td>771-9973/217-801</td></tr> </table>	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
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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>  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12	<p>2 x 0.5 – 4 mm² ① 400 V/6 kV/3 25 A</p>  9 mm / 0.35 in ② Approvals	2 x AWG 20 - 12
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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 			Plugs with strain relief housing, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in 		
	black	770-104	 25	black	770-114	 25
	white	770-124	 25	white	770-134	 25

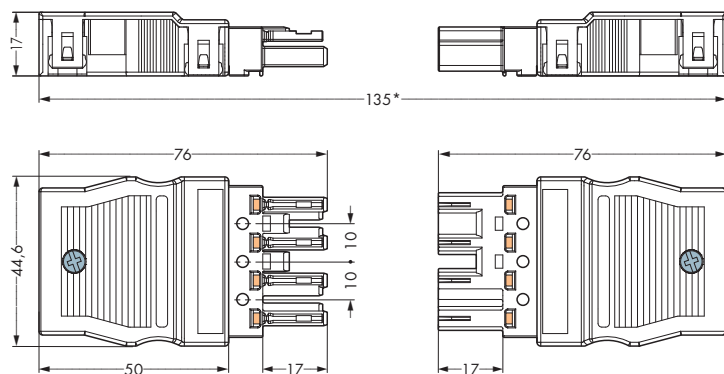
Accessories

	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)
------	--------------------

- 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



* Overall length of the connectors in mated condition

2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A	2 x 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	770-204	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



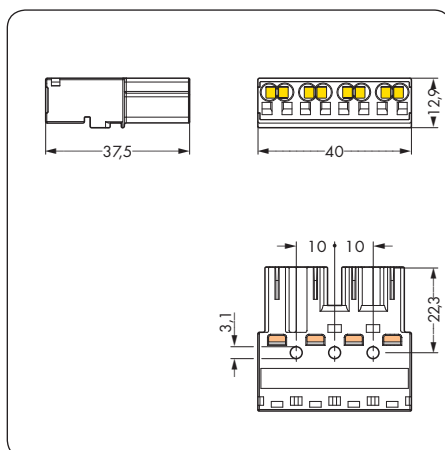
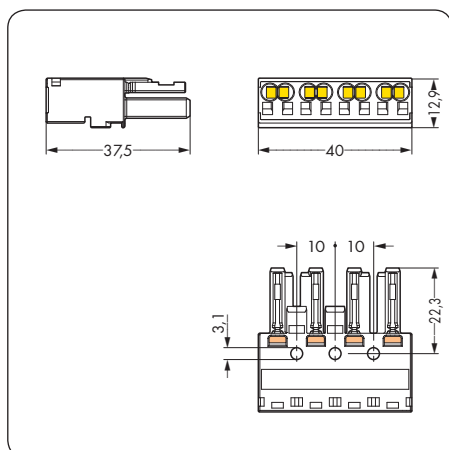
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



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

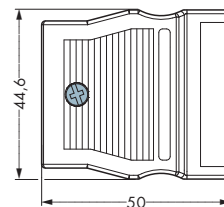
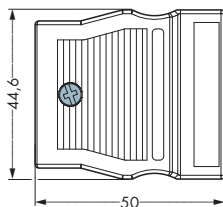
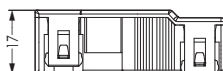
	Snap-on type strain relief housing for - 4-pole sockets - 4-pole plugs 1 Approvals	Snap-on type strain relief housing for - 4-pole sockets - 4-pole plugs 1 Approvals
--	---	---

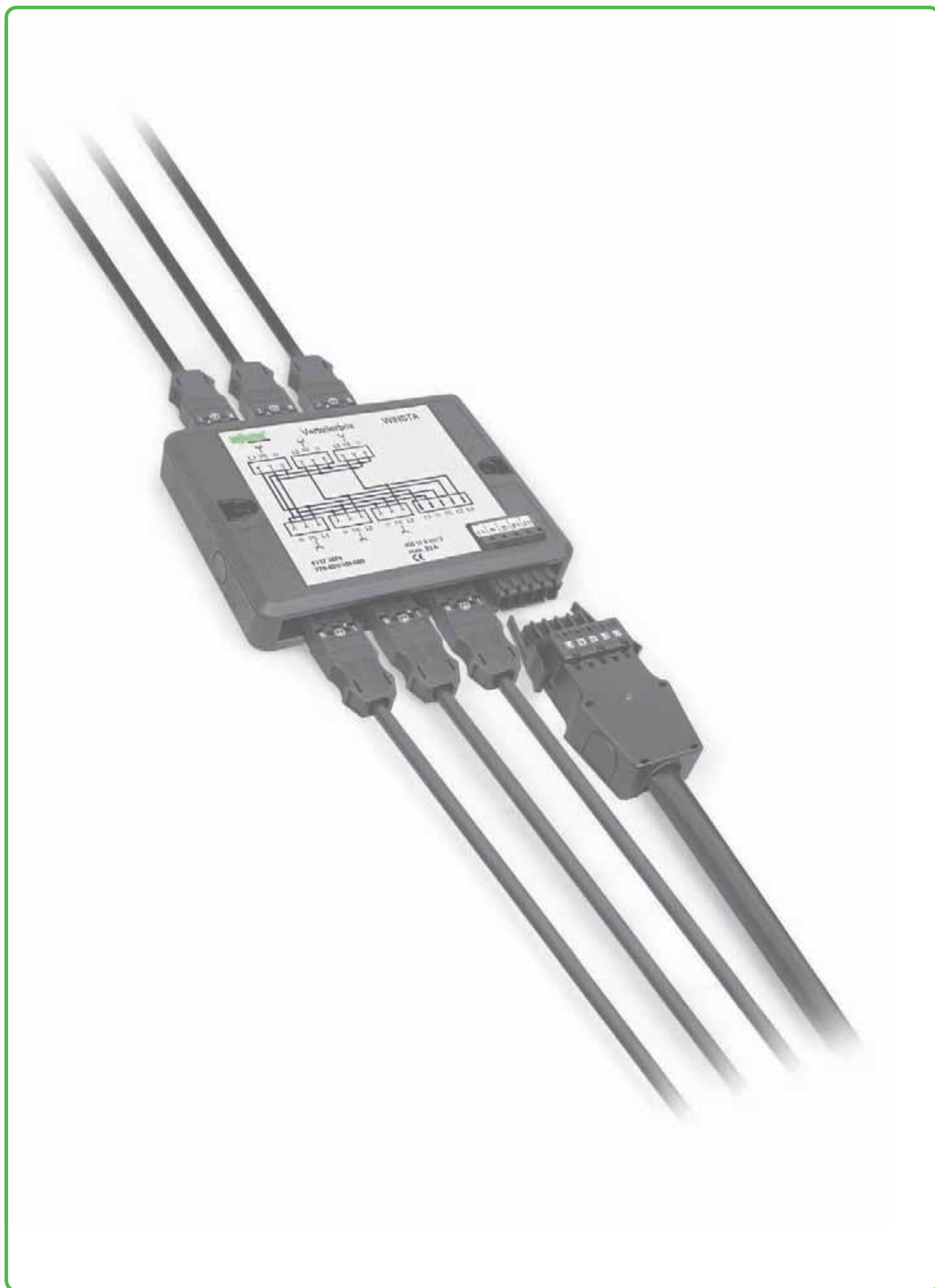


Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Strain relief housings	Strain relief housings, for 2 cables, diameter 5 - 9 mm / 0.19 - 0.35 in 2			Strain relief housings, for 2 cables, diameter 9 - 13 mm / 0.35 - 0.51 in 2		
	black	770-504/023-000	50	black	770-504	50
	white	770-514/023-000	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






2




WINSTA® MIDI

Snap-In Sockets and Plugs, 4 Poles

48

	<div>2 x 0.5 – 4 mm² ❶</div> <div>400 V/6 kV/3</div> <div>25 A</div>	<div>2 x AWG 20 - 12</div>	
	<div> 9 mm / 0.35 in</div>		
	❷ 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)
------	--------------------

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 Direct contact of the ground conductor on position PE1

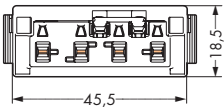
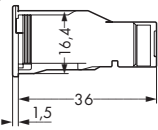
● black Coding A (N ⊕ 2 1)

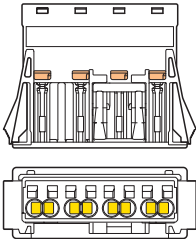
○ white Coding A (N ⊕ 2 1)

● 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





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



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

Direct contacting of the ground conductor



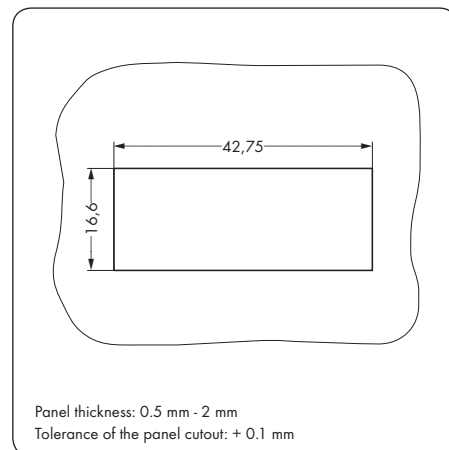
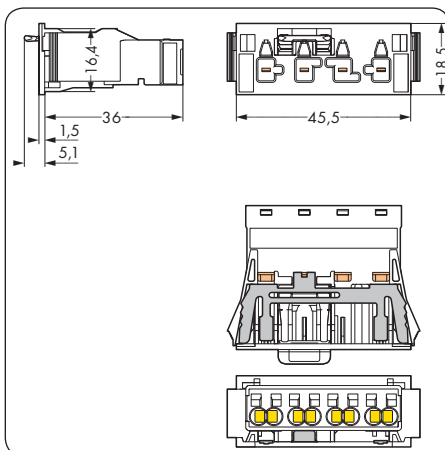
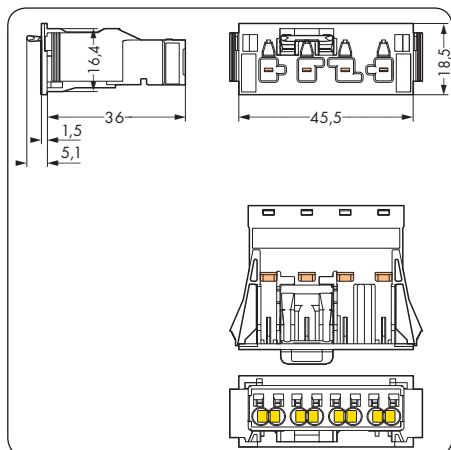
Varnish-piercing direct contacting of the earth conductor. ③

Lockout cap



Seal unused cutout with lockout cap.

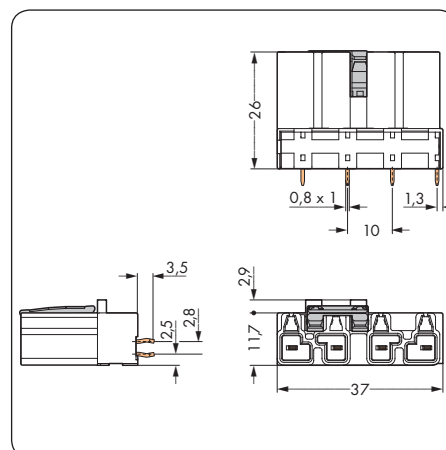
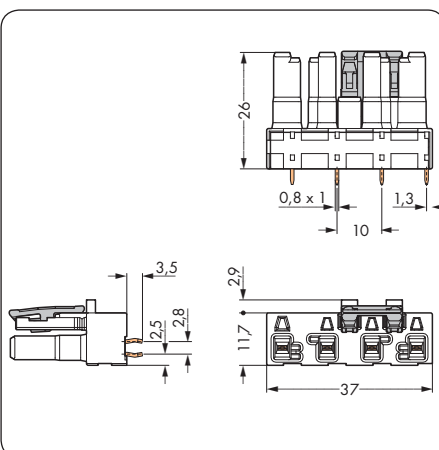
Cut-out dimensions



WINSTA® - The perfect connection!

Info	Dimensions (in mm)
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- Please find some information on the different codings on pages 146 and 147



② Approvals

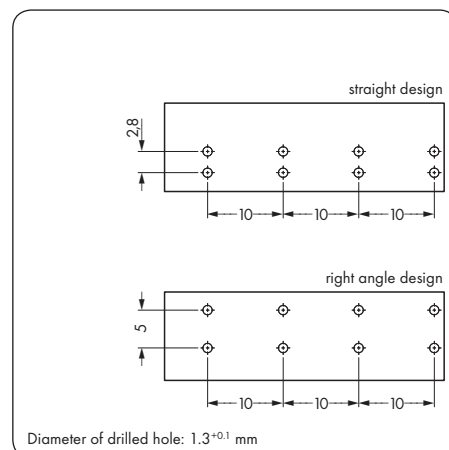
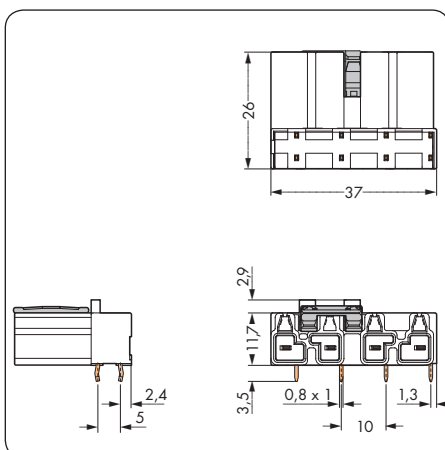
② Approvals



- 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	$\triangleq 1.5 \text{ mm}^2$ / AWG 16
20 A	70 μm one side	7 mm / 0.27 in	$\triangleq 2.5 \text{ mm}^2$ / AWG 14
25 A	105 μm both sides	7 mm / 0.27 in	$\triangleq 4 \text{ mm}^2$ / AWG 12

Hole patterns



2

WINSTA® MIDI


T-Distribution Connectors, 4 Poles

52

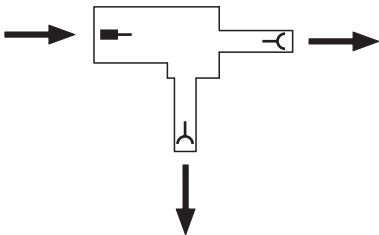
	400 V/6 kV/3 25 A	
	1 Approvals	



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				
<div>  <div> Lockout caps, for socket, separable, 12 poles </div> </div>	black	770-201	100	
	white	770-221	100	

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



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

●

black

Coding A

(N ⊕ 2 1)

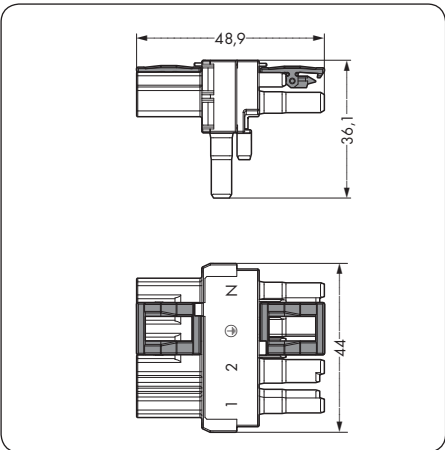
○

white




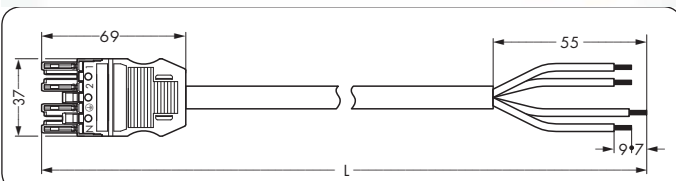






Coding A

(N ⊕ 2 1)

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





		PVC halogen-free				H05VV-F 4G1.5 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	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	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	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		Accessories							
<p>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!</p> <p>Other cables on request</p> <p>● black Coding A (N ⊕ 2 1) ○ white Coding A (N ⊕ 2 1)</p> <p>Please find some information on the different codings on pages 146 and 147</p>		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				



Accessories

Locking levers, manually operated, for "flying leads"

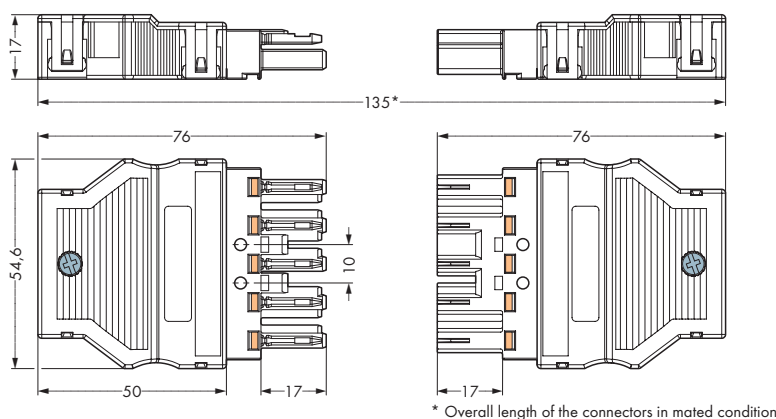
Locking levers, tool operated,
for "flying leads"

Lockout caps, for socket, separable,
12 poles

Coding pin, for plug

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

- 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	2 x AWG 20 - 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 25 A	2 x 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	770-205	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



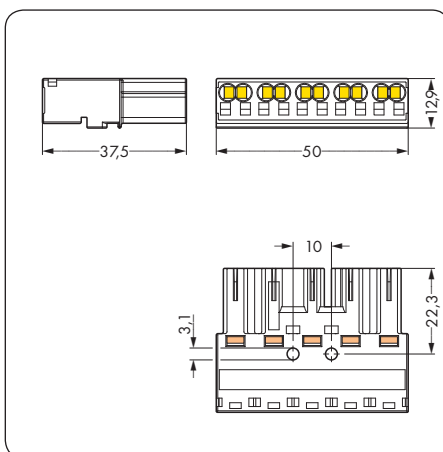
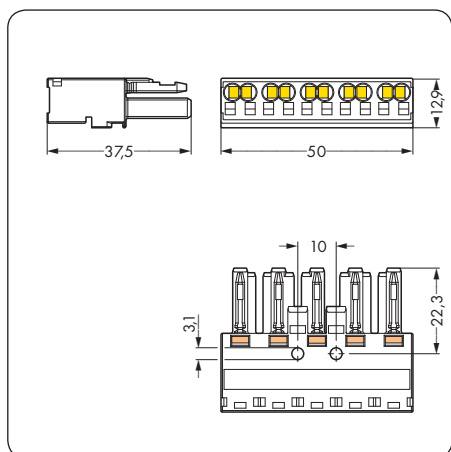
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



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

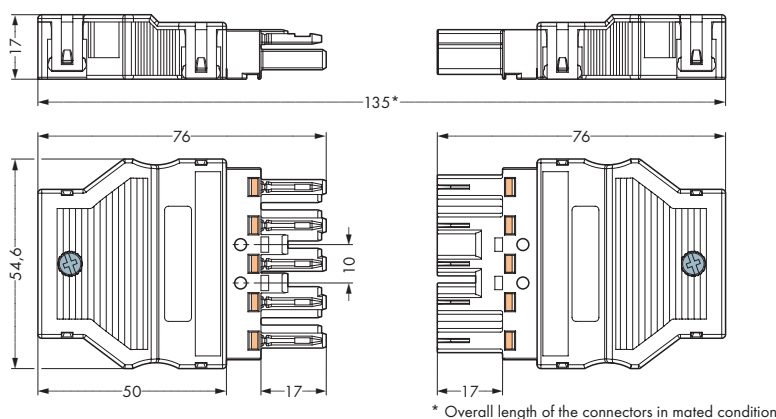


Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)



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

- 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



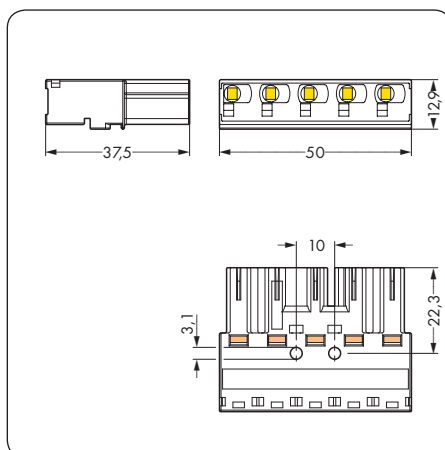
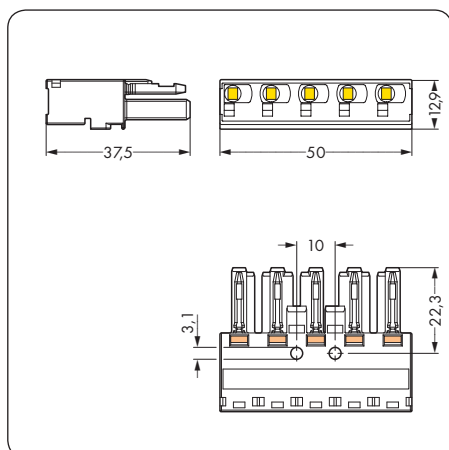
Snap on locking lever. Observe direction!
(Example shows 3-pole plug)



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

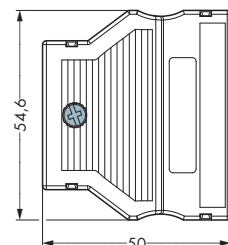
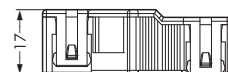
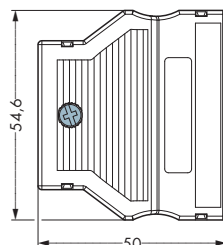


Locking lever, tool operated:
1.) Unlatch locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connector)

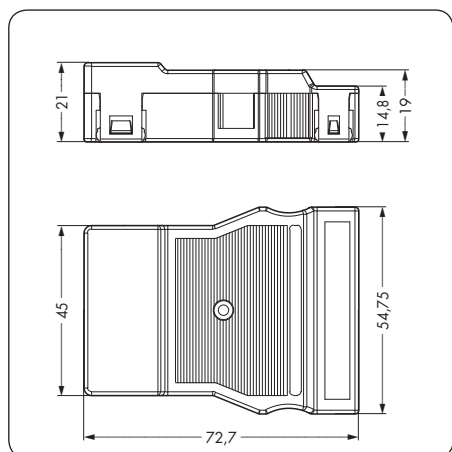


Info	Dimensions (in mm)
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-



1 Approvals


[illegible]

2




WINSTA® MIDI

Snap-In Sockets and Plugs, 5 Poles

62

	<div>2 x 0.5 – 4 mm² ❶</div> <div>400 V/6 kV/3</div> <div>25 A</div>	<div>2 x AWG 20 - 12</div>	
	<div> 9 mm / 0.35 in</div>		
	❷ 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)
------	--------------------

- 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 Direct contact of the ground conductor on position PE1
- black

○ white

● gray

● blue

● red

● green

Coding A

Coding A

Coding B

Coding I

Coding P

Coding Q

(N ⊕ L1 L2 L3)

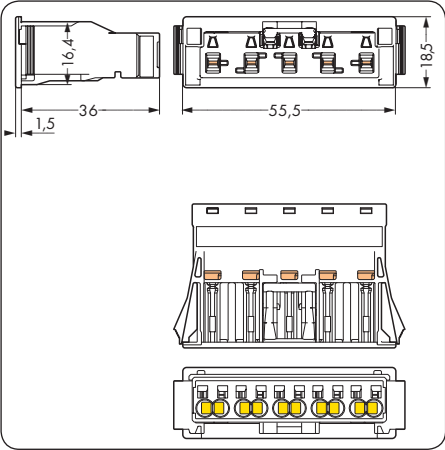
(N ⊕ L1 L2 L3)

(1 2 3 4 5)

(N ⊕ L DA- DA+)

(N ⊕ L1 L2 L3)

(N PE1 PE2 PE3 L)
- Please find some information on the different codings on pages 146 and 147



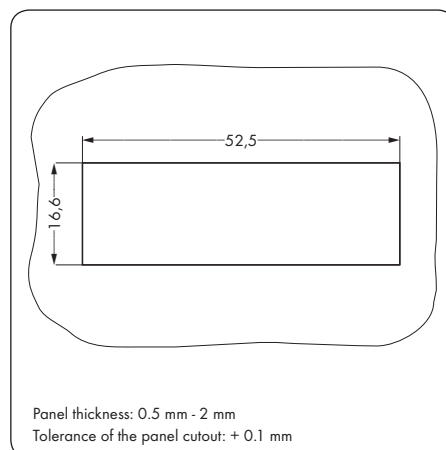
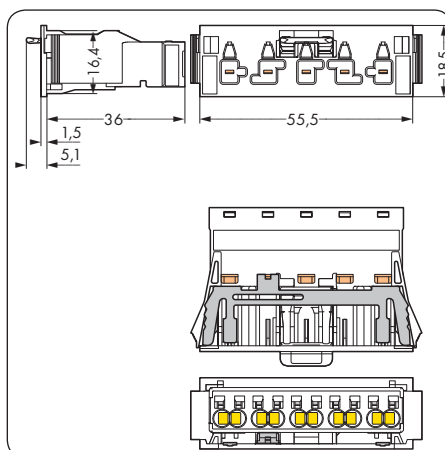
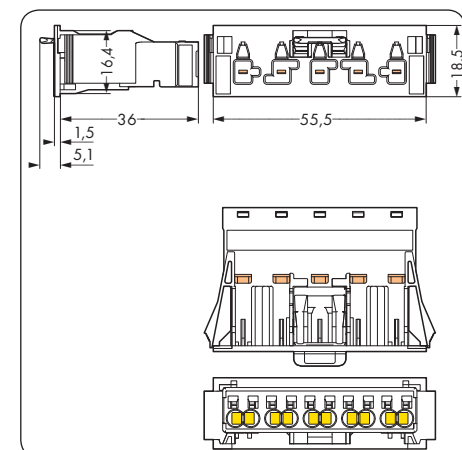
Varnish-piercing direct contacting of the earth conductor. ③

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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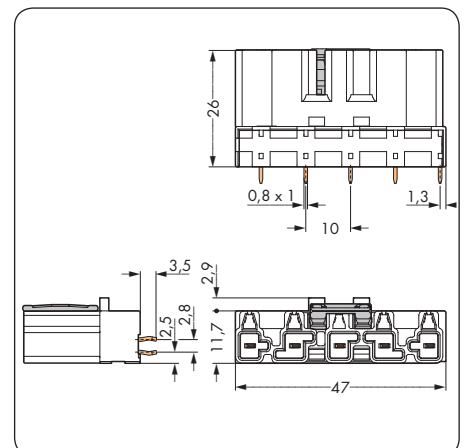
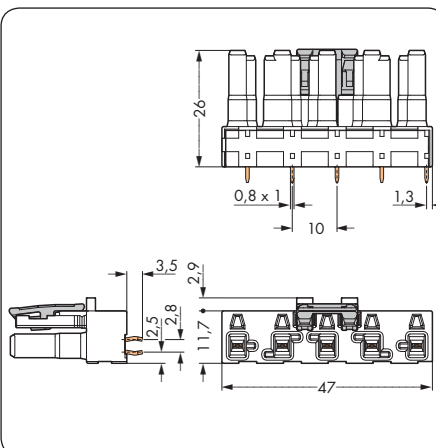
[illegible]

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+)

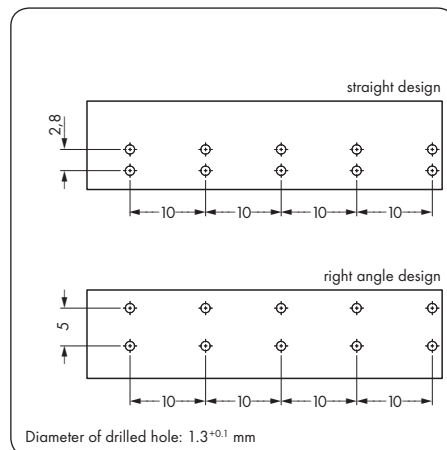
Please find some information on the different codings on pages 146 and 147



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	$\underline{\Delta 1.5 \text{ mm}^2}$ / AWG 16
20 A	70 μm one side	7 mm / 0.27 in	$\underline{\Delta 2.5 \text{ mm}^2}$ / AWG 14
25 A	105 μm both sides	7 mm / 0.27 in	$\underline{\Delta 4 \text{ mm}^2}$ / AWG 12

Hole patterns



	400 V/6 kV/3 25 A	250 V/4 kV/3 400 V/6 kV/3 25 A
	① Approvals	① Approvals



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						
Mounting plates, for distribution connectors						
 Fixing pin, for mounting plates, 6.1 x 2.5 - 4 mm / 0.24 x 0.098 - 0.157 in						
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 One locking lever for each intermediate coupler included in the delivery

● black

○ white

● blue

Coding A

Coding A

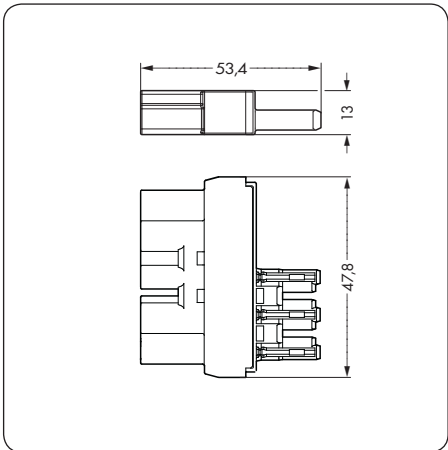
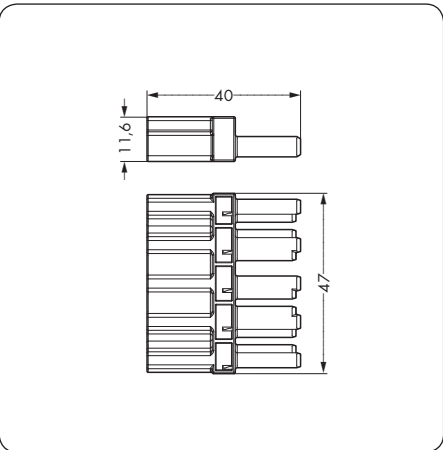
Coding I

(N ⊕ L1 L2 L3)

(N ⊕ L1 L2 L3)

(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

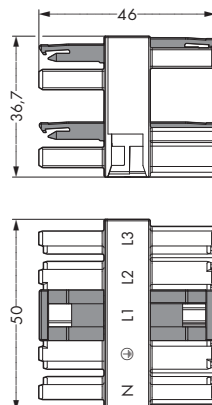
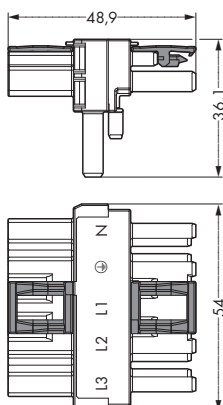
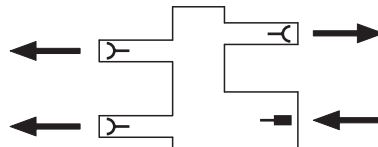
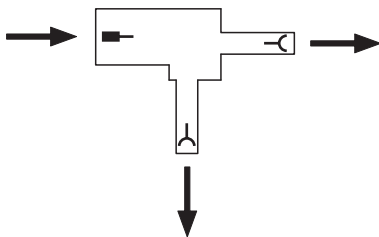
① Approvals

400 V/6 kV/3
25 A

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






WINSTA® - The perfect connection!

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

	<div>250 V/4 kV/3</div> <div>400 V/6 kV/3</div> <div>25 A</div> <div>① Approvals</div>	
--	--	--

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			

- ① Approval data can be found in the online catalog at www.wagocatalog.com
- ② Jumper position on delivery L2
- black

○ white

● red

Coding A

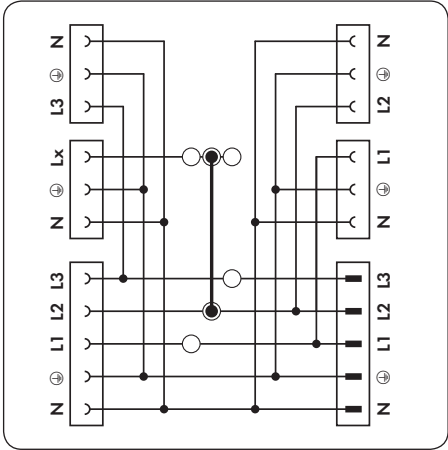
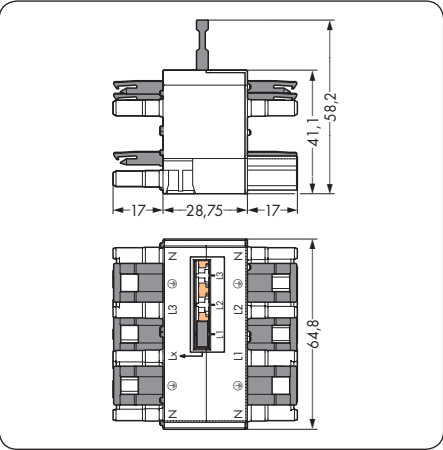
Coding A

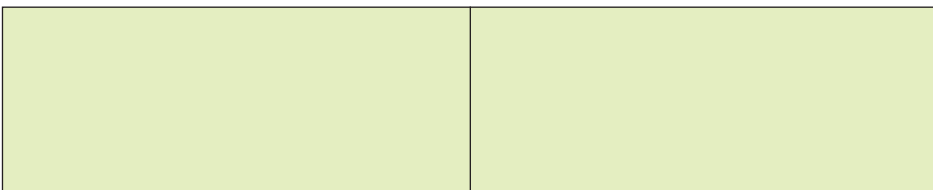
Coding P

(N ⊕ L1 L2 L3)

(N ⊕ L1 L2 L3)

(N ⊕ L1 L2 L3)
- Please find some information on the different codings on pages 146 and 147





Movable jumper.

2

Use



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!

0.5 – 4 mm² ❶
 250 V/4 kV/3
 400 V/6 kV/3
 25 A
 9 mm / 0.35 in
 ❷ Approvals

AWG 20 - 12



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.



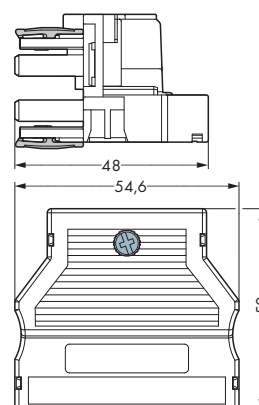
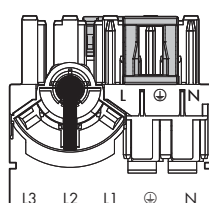
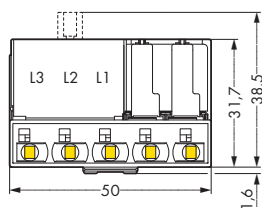
Plugging a 3-pole tap-off cable.

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 ❹		
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)		


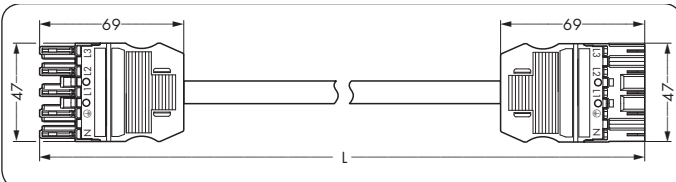

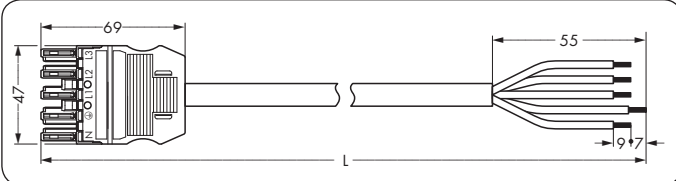

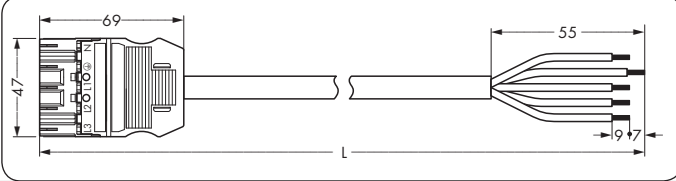





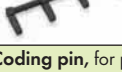

- ❶ Wire range: 0.5 - 4 mm² "s + f-st"
 0.5 - 2.5 mm² "stranded"
 ❷ Approval data can be found in the online catalog at www.wagocatalog.com
 ❸ Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications!
 ❹ More strain relief housings see page 60



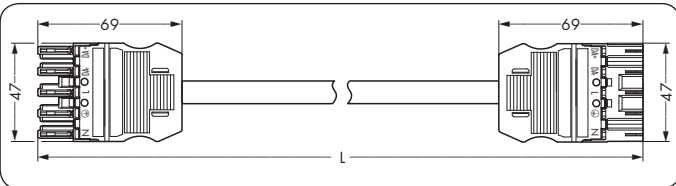


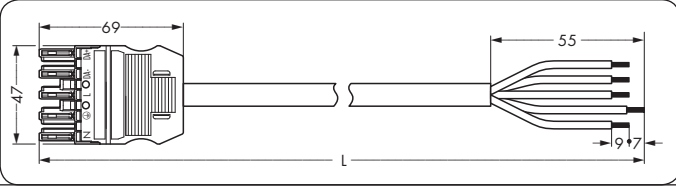


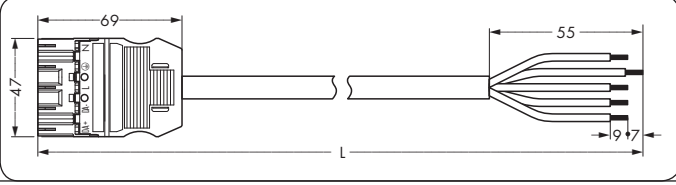




● black Coding A (N ⊕ L1 L2 L3)
 ○ white Coding A (N ⊕ L1 L2 L3)


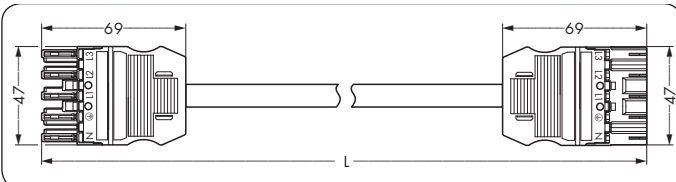

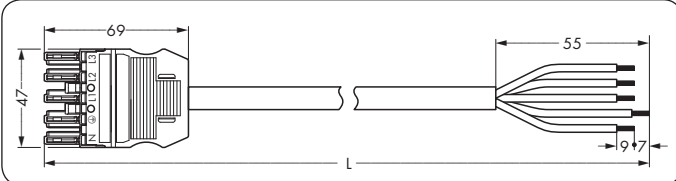

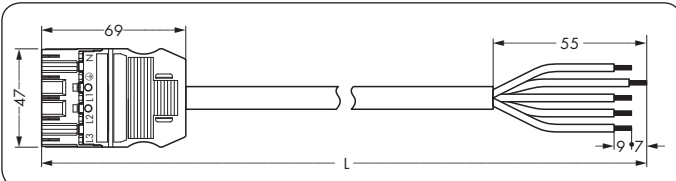




Please find some information on the different codings on pages 146 and 147


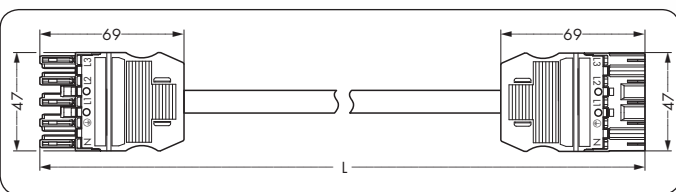

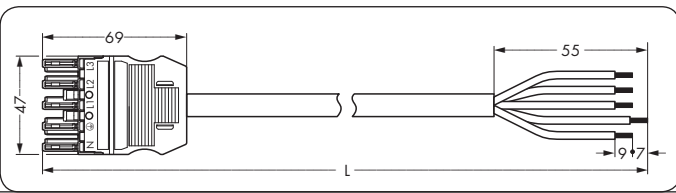

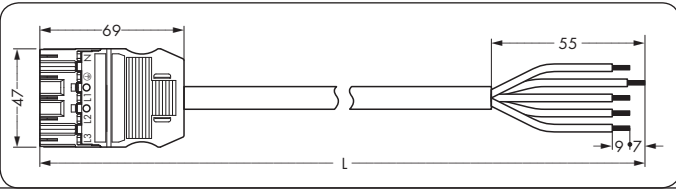




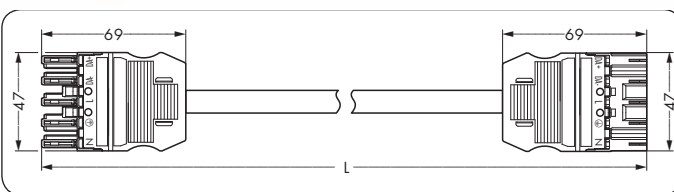


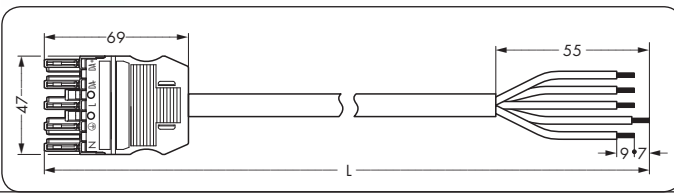


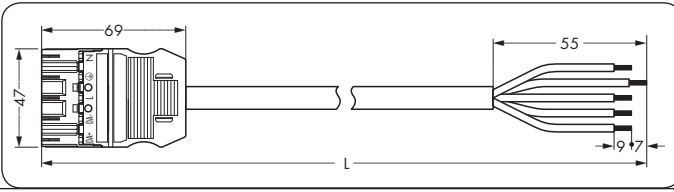






WINSTA® - The perfect connection!

		PVC halogen-free				H05VV-F 5G1.5 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									
<p>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!</p> <p>Other cables on request</p> <p>● black Coding A (N ⊕ L1 L2 L3) ○ white Coding A (N ⊕ L1 L2 L3) ● blue Coding I (N ⊕ L DA- DA+)</p> <p>Please find some information on the different codings on pages 146 and 147</p>		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 halogen-free		H05VV-F 5G1.5 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 halogen-free		H05VV-F 5G1.5 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		Accessories			
<div>① Approval data can be found in the online catalog at www.wagocatalog.com</div> <div>Other cables on request</div> <div><div>● black</div><div>○ white</div><div>● red</div></div> <div><div>Coding A</div><div>Coding A</div><div>Coding P</div></div> <div><div>(N ⊕ L1 L2 L3)</div><div>(N ⊕ L1 L2 L3)</div><div>(N ⊕ L1 L2 L3)</div></div> <div>Please find some information on the different codings on pages 146 and 147</div>		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 ❶ 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		Accessories				
1 m		Locking levers, manually operated,				
2, 3, 4 m		for "flying leads"				
5, 6 m		black 770-101 100 (4 x 25)				
7, 8 m		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				



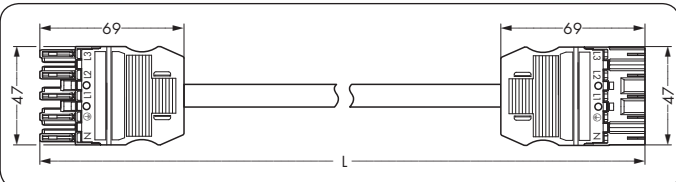


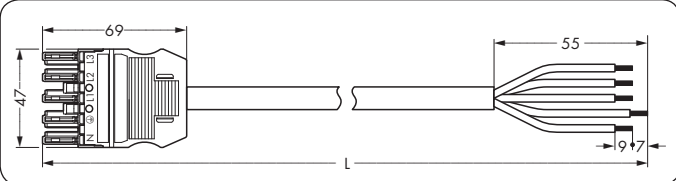


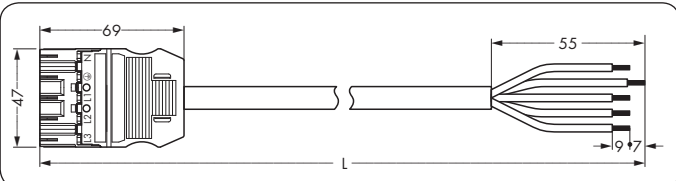




		PVC H05VV-F 5G2.5 halogen-free H05Z1 Z1-F 5G2.5	
		400 V/6 kV/3 20 A	
		Wire ends bonded 9 mm/0.35 in	
		① Approvals	
Interconnecting cables, socket - plug		Length Item no. black	Item no. black
		Coding I,  e.g., for dimming function (DALI)	
		PVC	halogen-free
		1 m 771-9985/007-101	771-9985/017-101
		2 m 771-9985/007-201	771-9985/017-201
		3 m 771-9985/007-301	771-9985/017-301
		4 m 771-9985/007-401	771-9985/017-401
		5 m 771-9985/007-501	771-9985/017-501
		6 m 771-9985/007-601	771-9985/017-601
		7 m 771-9985/007-701	771-9985/017-701
		8 m 771-9985/007-801	771-9985/017-801
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 771-9985/107-101	771-9985/117-101
		2 m 771-9985/107-201	771-9985/117-201
		3 m 771-9985/107-301	771-9985/117-301
		4 m 771-9985/107-401	771-9985/117-401
		5 m 771-9985/107-501	771-9985/117-501
		6 m 771-9985/107-601	771-9985/117-601
		7 m 771-9985/107-701	771-9985/117-701
		8 m 771-9985/107-801	771-9985/117-801
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 771-9985/207-101	771-9985/217-101
		2 m 771-9985/207-201	771-9985/217-201
		3 m 771-9985/207-301	771-9985/217-301
		4 m 771-9985/207-401	771-9985/217-401
		5 m 771-9985/207-501	771-9985/217-501
		6 m 771-9985/207-601	771-9985/217-601
		7 m 771-9985/207-701	771-9985/217-701
		8 m 771-9985/207-801	771-9985/217-801
Info		Accessories	
<div>① Approval data can be found in the online catalog at www.wagocatalog.com</div> <div>Other cables on request</div> <div><div><div></div>blue</div><div><div></div>red</div></div> <div><div>Coding I</div><div>Coding P</div></div> <div><div>(N ⊕ L DA- DA+)</div><div>(N ⊕ L1 L2 L3)</div></div> <div>Please find some information on the different codings on pages 146 and 147</div>		Locking levers, manually operated, for "flying leads"	
		 <div>black770-101100 (4 x 25)</div> <div>white770-121100 (4 x 25)</div>	
		Locking levers, tool operated, for "flying leads"	
		 <div>black770-111100 (4 x 25)</div> <div>white770-131100 (4 x 25)</div>	
		Lockout caps, for socket, separable, 12 poles	
		 <div>black770-201100</div> <div>white770-221100</div>	
		Coding pin, for plug	
		 <div>gray770-401100</div>	

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

Other cables on request

 blue Coding I (N ⊕ L DA- DA+)
 red Coding P (N ⊕ L1 L2 L3)

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

		PVC halogen-free		H05VV-F 5G2.5 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. black	
		Coding P			
		PVC		halogen-free	
		1 m	771-9975/007-101	771-9975/017-101	
		2 m	771-9975/007-201	771-9975/017-201	
		3 m	771-9975/007-301	771-9975/017-301	
		4 m	771-9975/007-401	771-9975/017-401	
		5 m	771-9975/007-501	771-9975/017-501	
		6 m	771-9975/007-601	771-9975/017-601	
		7 m	771-9975/007-701	771-9975/017-701	
		8 m	771-9975/007-801	771-9975/017-801	
Connecting cables, socket - free end		Length	Item no. black	Item no. black	
		Coding P			
		PVC		halogen-free	
		1 m	771-9975/107-101	771-9975/117-101	
		2 m	771-9975/107-201	771-9975/117-201	
		3 m	771-9975/107-301	771-9975/117-301	
		4 m	771-9975/107-401	771-9975/117-401	
		5 m	771-9975/107-501	771-9975/117-501	
		6 m	771-9975/107-601	771-9975/117-601	
		7 m	771-9975/107-701	771-9975/117-701	
		8 m	771-9975/107-801	771-9975/117-801	
Connecting cables, plug - free end		Length	Item no. black	Item no. black	
		Coding P			
		PVC		halogen-free	
		1 m	771-9975/207-101	771-9975/217-101	
		2 m	771-9975/207-201	771-9975/217-201	
		3 m	771-9975/207-301	771-9975/217-301	
		4 m	771-9975/207-401	771-9975/217-401	
		5 m	771-9975/207-501	771-9975/217-501	
		6 m	771-9975/207-601	771-9975/217-601	
		7 m	771-9975/207-701	771-9975/217-701	
		8 m	771-9975/207-801	771-9975/217-801	
Lengths		Accessories			
Pack.-unit		Locking levers, manually operated,			
1 m		for "flying leads"			
2, 3, 4 m		 black 770-101 100 (4 x 25)			
5, 6 m		white 770-121 100 (4 x 25)			
7, 8 m		Locking levers, tool operated,			
Other lengths on request		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			

Distribution box, wired
Different versions see page 79

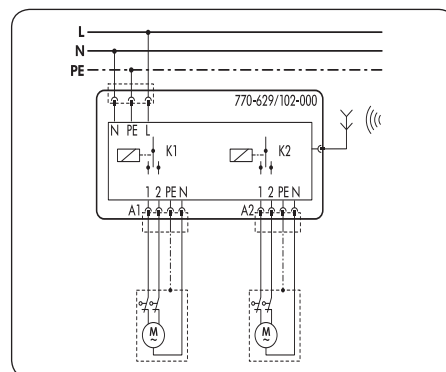
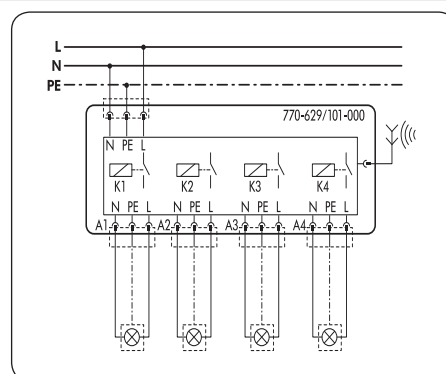
4-channel radio receiver
with 4 make contacts

2-channel radio receiver
with outputs for blind control

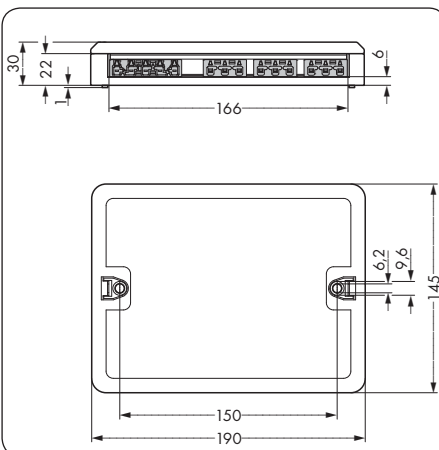
Technical data



Description	Color	Item no.	Pack.-unit	Technical data
Radio receivers				
		4-channel radio receiver		Voltage supply AC 230 V, 50 - 60 Hz
				Voltage range $\pm 10 \%$
	black	770-629/101-000	1	Current consumption max. 21 mA
				(internal) 16 A (4-channel)
				Max. total current max. 8 A (2-channel)
				max. 120 A (4-channel)
		2-channel radio receiver		Max. make current 25 A (2-channel)
				Switching frequency max. 5 Hz
	black	770-629/102-000	1	Isolation Internal voltage supply, electrically isolated
				Fuse protection external, 16 A
				Ambient operating temperature $0^{\circ}\text{C} \dots + 55^{\circ}\text{C}$
				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	



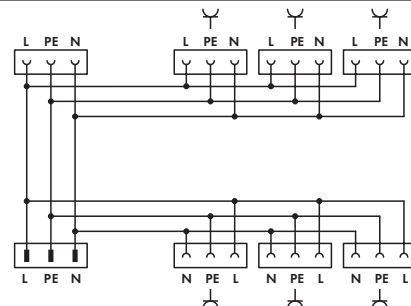
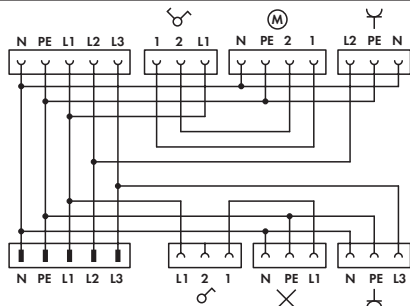
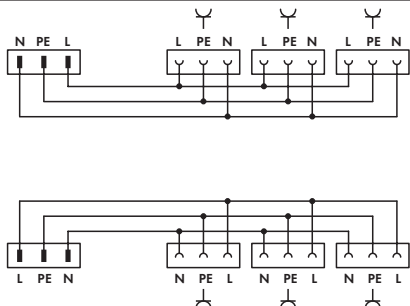
Please find additional information
at www.wago.com



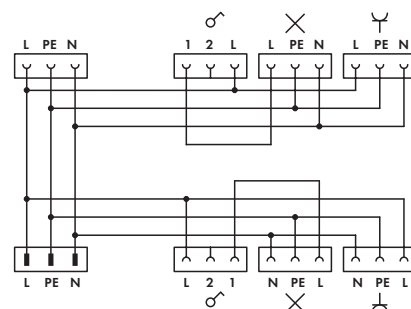
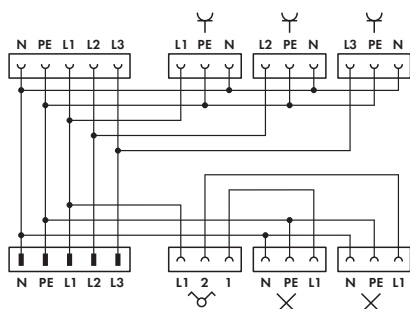
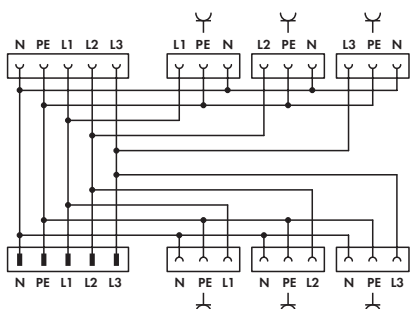
Internal wiring 4 mm²/AWG 12
400 V / 6 kV / 3 5 poles
250 V / 4 kV / 3 3 poles
25 A

Internal wiring 4 mm²/AWG 12
400 V / 6 kV / 3 5 poles
250 V / 4 kV / 3 3 poles
25 A

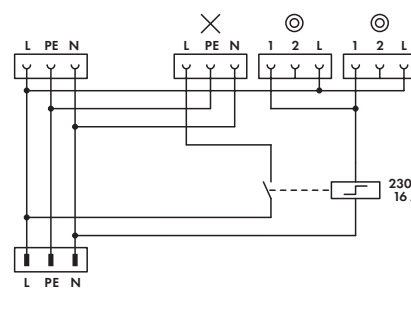
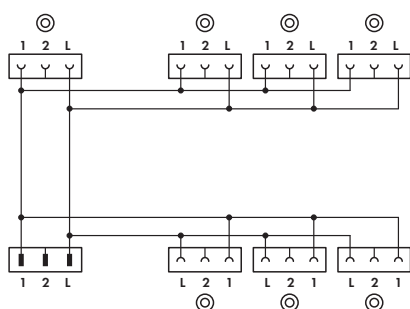
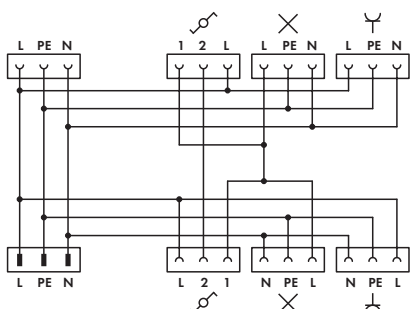
Internal wiring 2.5 mm² (AWG 14) / 4 mm² (AWG 12)
400 V / 6 kV / 3 5 poles
250 V / 4 kV / 3 3 poles
max. 25 A, depends on the built-in appliance



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

Snap-on type strain relief housings for

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

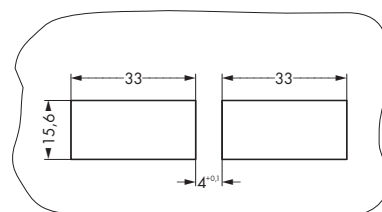
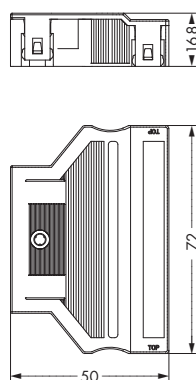


Application example of a 6-pole connector.

[illegible]

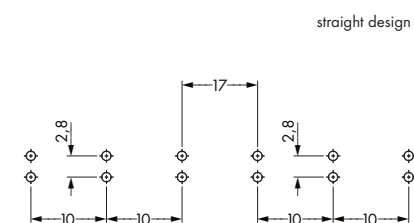
Info	Dimensions (in mm)
------	--------------------

① For H05VV and NYM cables
Other cables on request

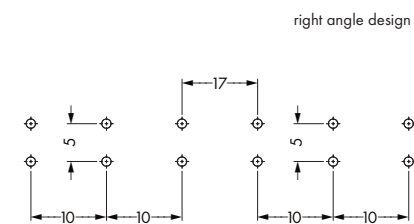


Panel thickness: 0.5 mm - 2 mm
Tolerance of the panel cutout: + 0.1 mm

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



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



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

Strain Relief Housings, 7 Poles

2

81

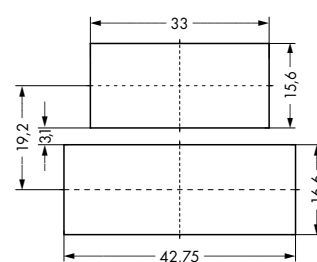
Snap-on type strain relief housing for 3-pole socket or plug as well as 4-pole socket or plug



Application example of a 7-pole connector.

2

Description	Color	Item no.	Pack.-unit
Strain relief housings	Strain relief housings, for 1 cable, diameter 8 - 15 mm / 0.31 - 0.59 in ①		
	black	770-507/047-000	50
	white	770-517/047-000	50

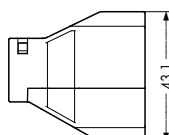
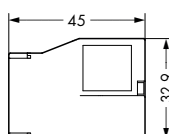


If the 7-pole strain relief housing is used with snap-in connectors, the sheet cutouts have to be made as described above.



"Flying leads"
(NOTICE: Only use locking levers on upper position!)

Dimensions (in mm)



"Flying leads"

WINSTA® - The perfect connection!

3

831 Series
Socket, 5 poles
Plug, 5 poles

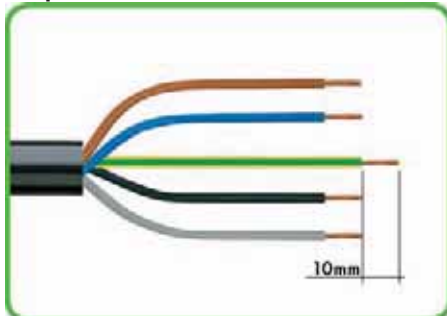
84
84

Handling WINSTA® MAXI 831 Series

3

83

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

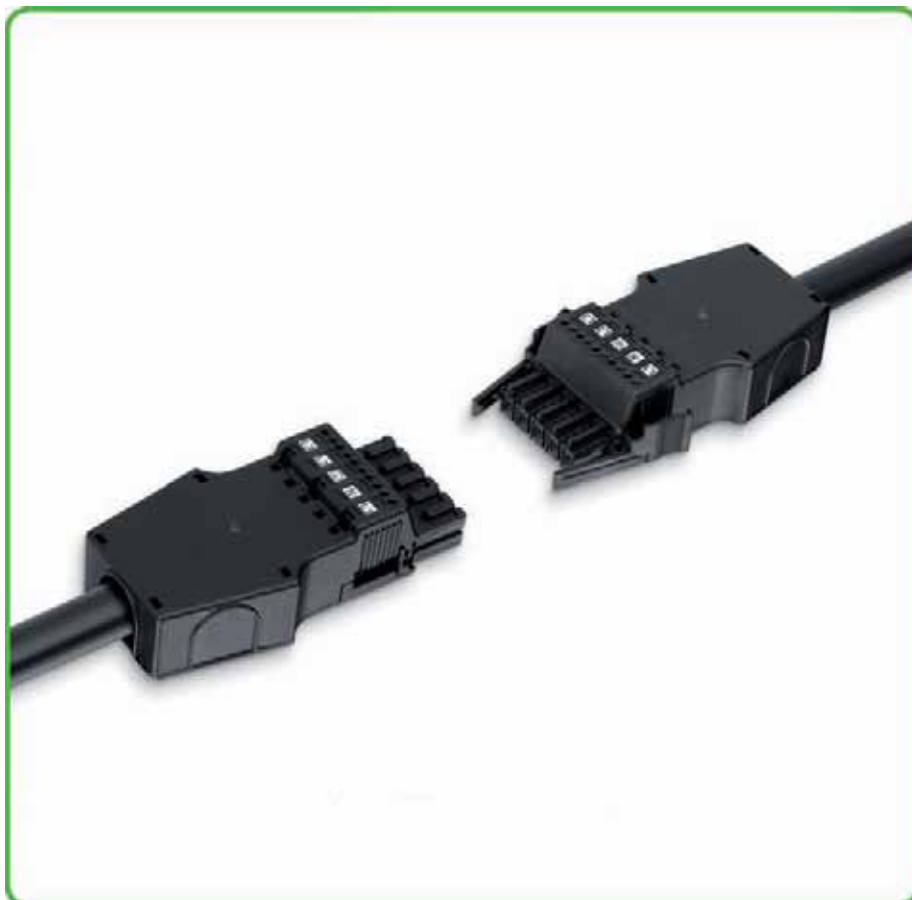


Actuate the clamp using a screwdriver (blade width 5.5) to connect flexible conductors and insert the stripped conductor up to the stop.

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

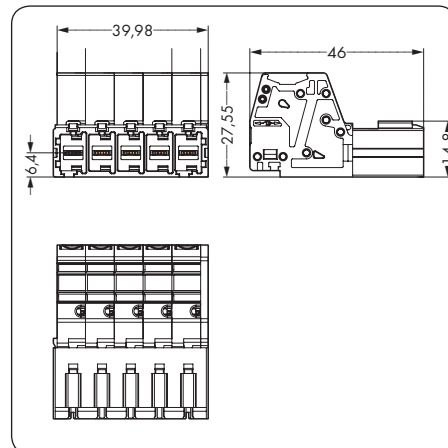


The printed marking of the connector is clearly visible in the opening of the strain relief housing.

WINSTA®- The perfect connection!

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

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






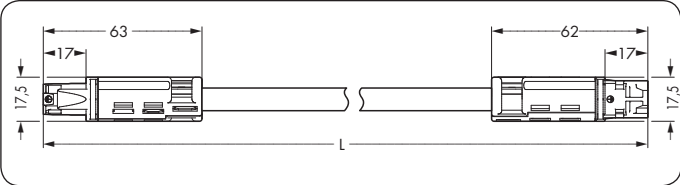

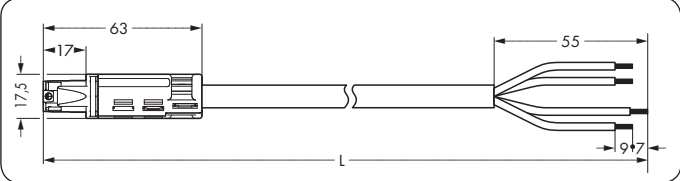

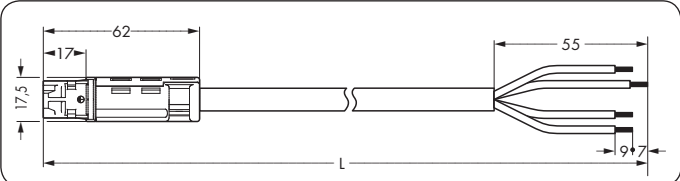
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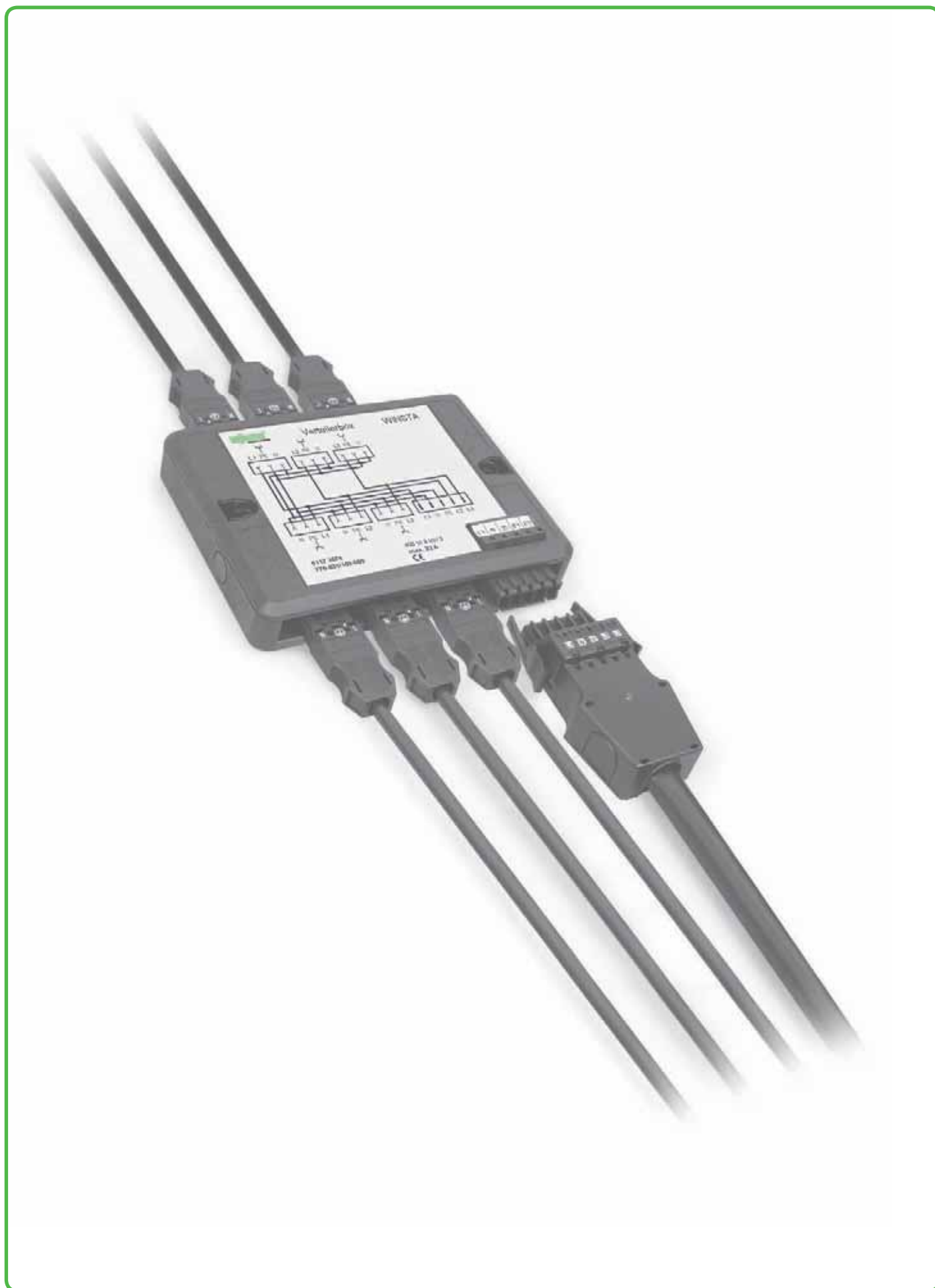
**774 Series****Cable Assemblies 3 x 1.5 mm²/AWG 16****88****Cable Assemblies 3 x 2.5 mm²/AWG 14****89****774 Series****Cable Assemblies 4 x 1.5 mm²/AWG 16****90**



WINSTA® - The perfect connection!

4

		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

5

93

Preparation

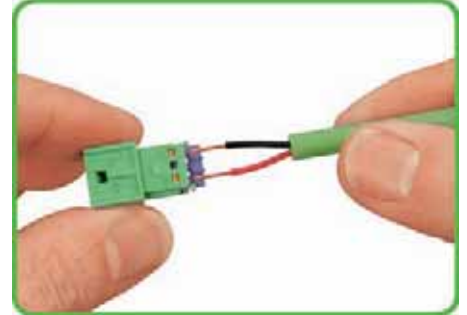


1. Strip length, outer insulation = 23 mm / 0.9 in
2. Strip length = 9 mm / 0.35 in

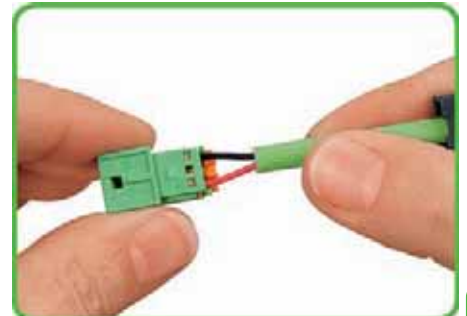
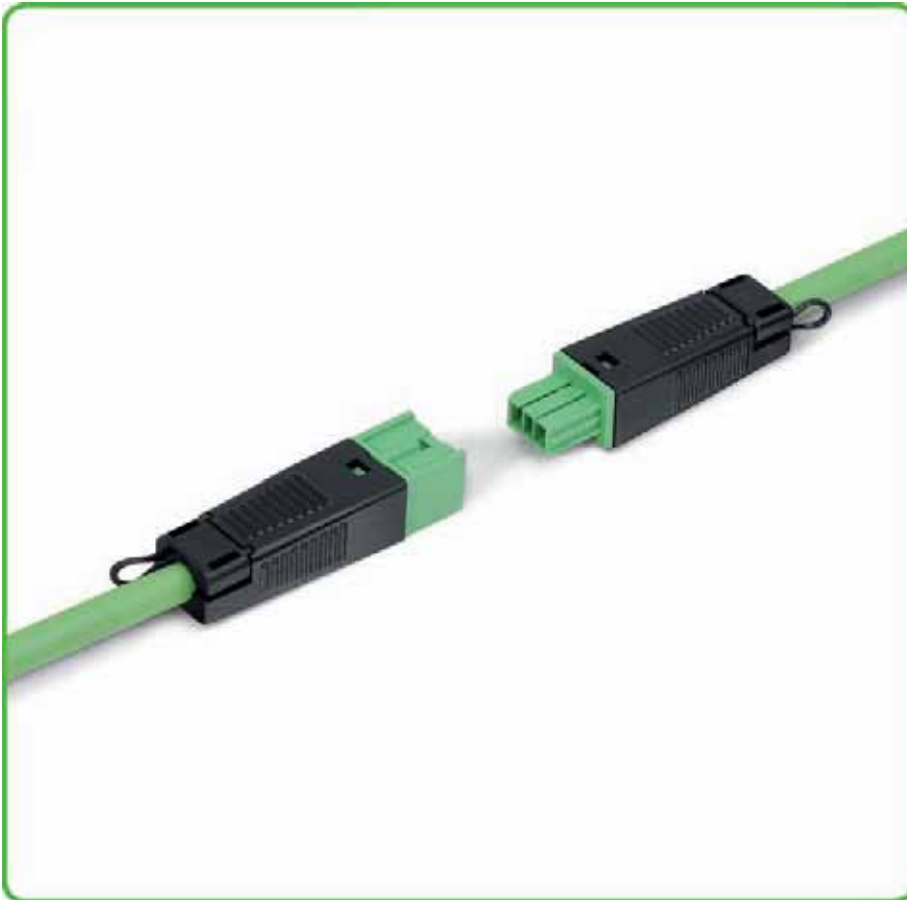
Conductor connection



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.



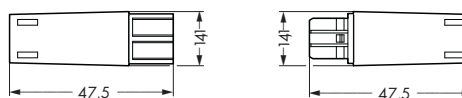
Pre-assembled KNX connector

WINSTA® - The perfect connection!



The image shows two views of the RJ45 connector. The left view is a side profile, showing the black plastic housing and the green RJ45 port. The right view is a front-facing view, showing the green RJ45 port with its internal contacts and the black plastic housing.

Info	Dimensions (in mm)
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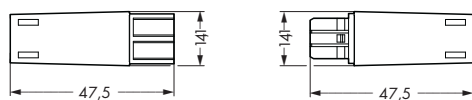
Please find some information on the different codings on pages 146 and 147


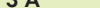


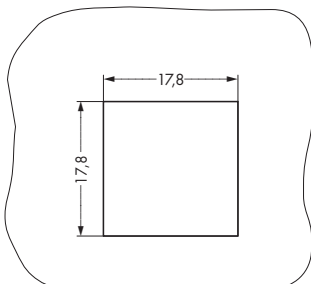
Sockets and Plugs, 2 Poles, with Special Coding

<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>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>
---	---

[illegible]

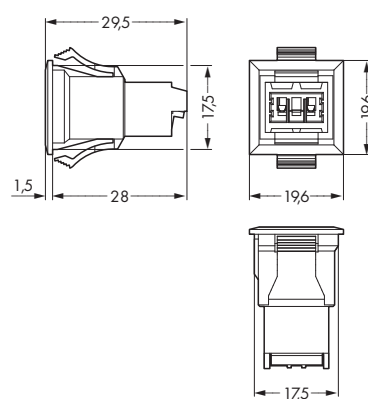
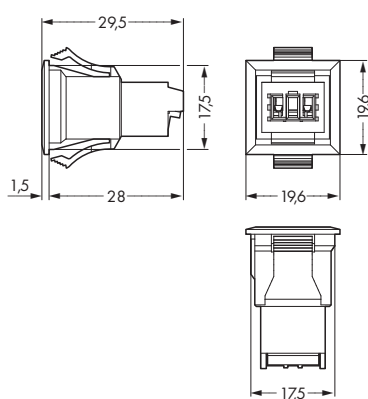


<p>Cut-out dimensions</p> <p>Sheet thickness: 0.5 mm to 2 mm (0.02-0.078 in)</p> <p>Tolerance of the cut-out: + 0.1 mm/0.0039 in</p>	<p>Ø 0.8 mm / 0.031 in</p> <p>50 V/0.8 kV/3</p> <p>3 A</p> <p> 9 mm / 0.35 in</p> <p>1 Approvals</p>	<p>Ø 0.8 mm / 0.031 in</p> <p>50 V/0.8 kV/3</p> <p>3 A</p> <p> 9 mm / 0.35 in</p> <p>1 Approvals</p>
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[illegible]

Info	Dimensions (in mm)
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Please find some information on the different codings on pages 146 and 147



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

5

97

Ø 0.8 mm / 0.031 in
50 V/0.8 kV/3
3 A

9 mm / 0.35 in

1 Approvals

Ø 0.8 mm / 0.031 in
50 V/0.8 kV/3
3 A

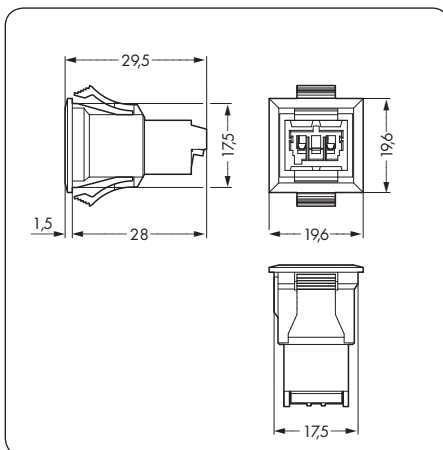
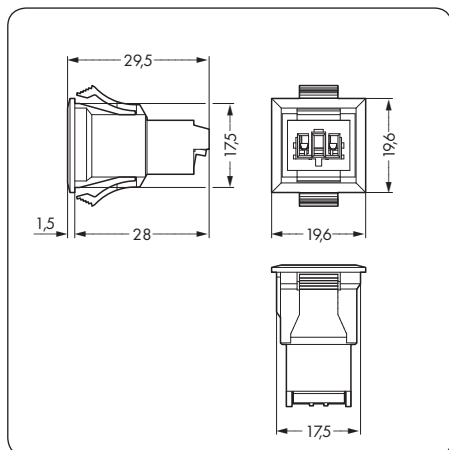
9 mm / 0.35 in

1 Approvals



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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WINSTA® - The perfect connection!

5

	<p>50 V/0.8 kV/3 3 A</p> <p>① Approvals</p>	
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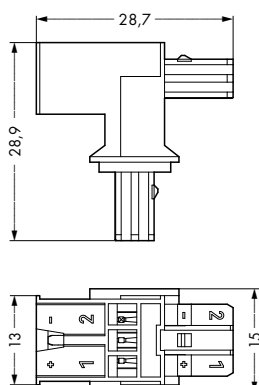
[illegible]

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

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

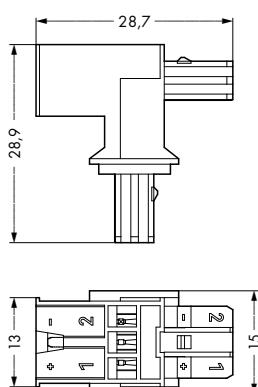


5



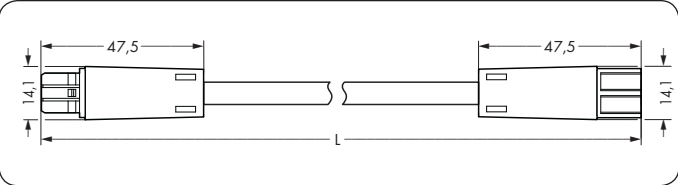


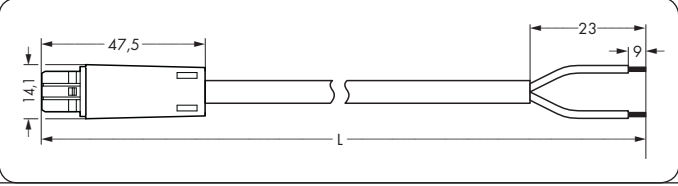


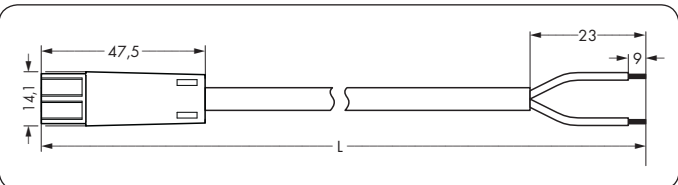


1 Approvals



5



WINSTA® - The perfect connection!

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

**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

6

103

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.

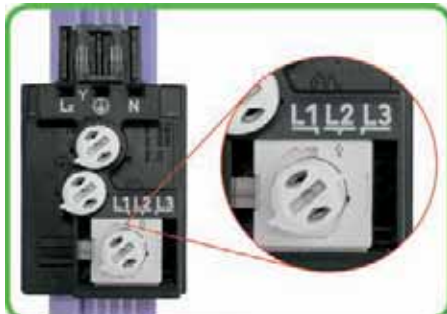


Fixing the supply cable using strain relief housing.

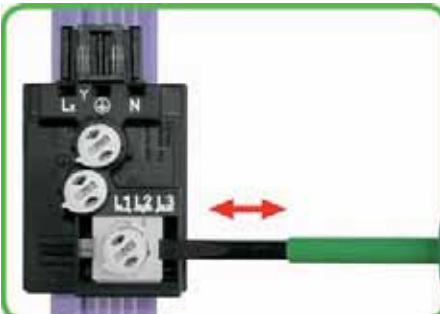


Tighten the strain relief screw using a screwdriver

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.

WINSTA® - The perfect connection!

772 Series Supply Module with Strain Relief Housing, 5 Poles

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

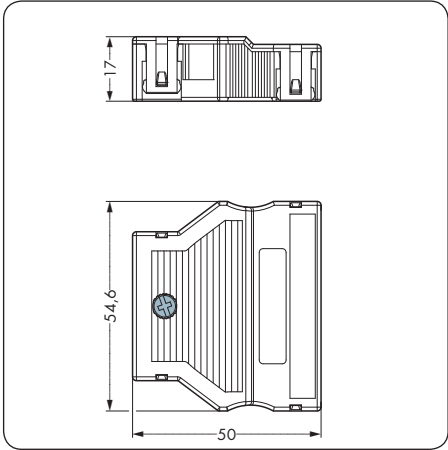
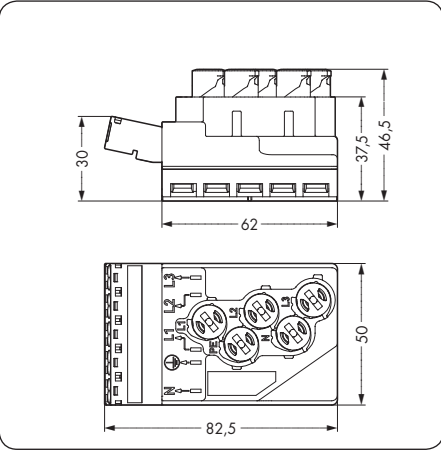
② Approval data can be found in the online catalog at www.wagocatalog.com

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



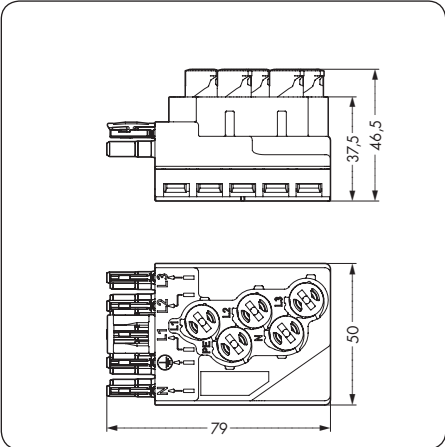
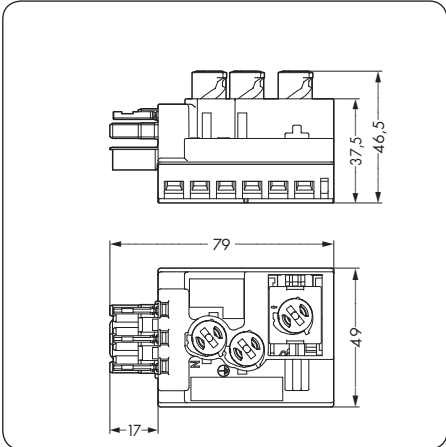
772 Series

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
---	---



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



Flat Cables 5 x 2.5 mm²/AWG 14



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 mm²/AWG 12 3L + N + PE halogen-free 0.6/1kV ① Approvals	Flat cable 5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16 3L + N + PE + 2 Bus halogen-free 0.6/1kV ① Approvals	Flat cable 5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16 3L + N + PE + 2 Bus PVCi 0.6/1kV ① Approvals
---	---	---



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

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

0.5 – 1.5 mm²
50 V/0.8 kV/3
3 A

5 - 6 mm / 0.22 in

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.

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!

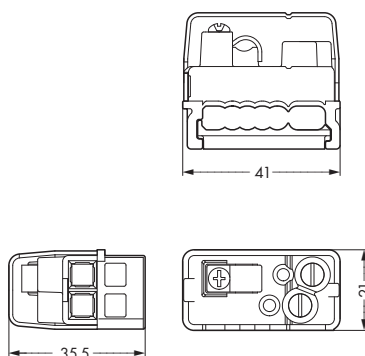
Info	Dimensions (in mm)
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① Approval data can be found in the online catalog at www.wagocatalog.com

Processing temperature +5 °C to +40 °C

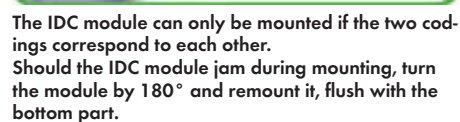
● green Coding E (1+ 2-)
● light gray Coding F (1+ 2-)

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

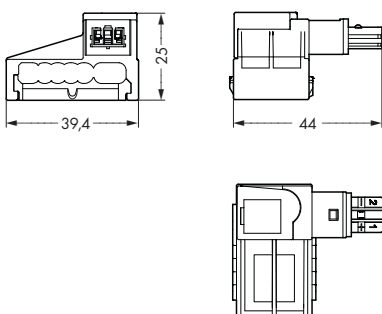
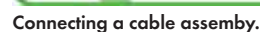


Fix the bus cable using the strain relief and connect stripped wires as shown in the picture.

109



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



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
--	--	--



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

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



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

	<p>4 x Ø 0.6 - 0.8 mm / 0.023 - 0.031 in "s" 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 cod-ings 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.

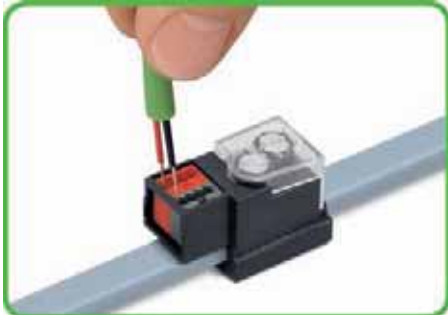
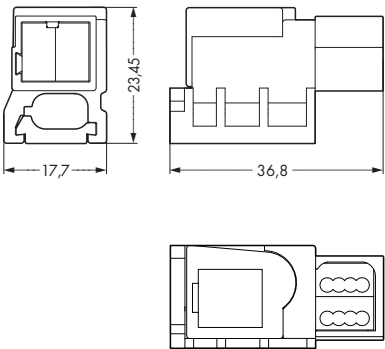
Info	Dimensions (in mm)
------	--------------------

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



Connecting: insert stripped solid wires up to the stop.

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

6

113

50 V/0.8 kV/3
3 A

① Approvals

50 V/0.8 kV/3
3 A

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.



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

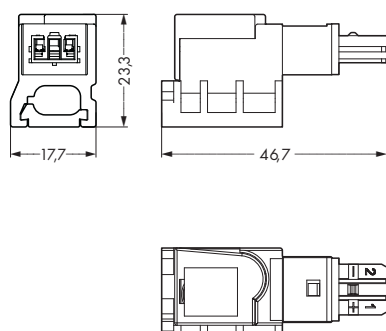
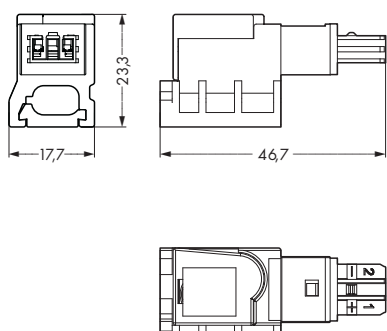


Snap on transparent protective cover.



Connecting a cable assembly.





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		



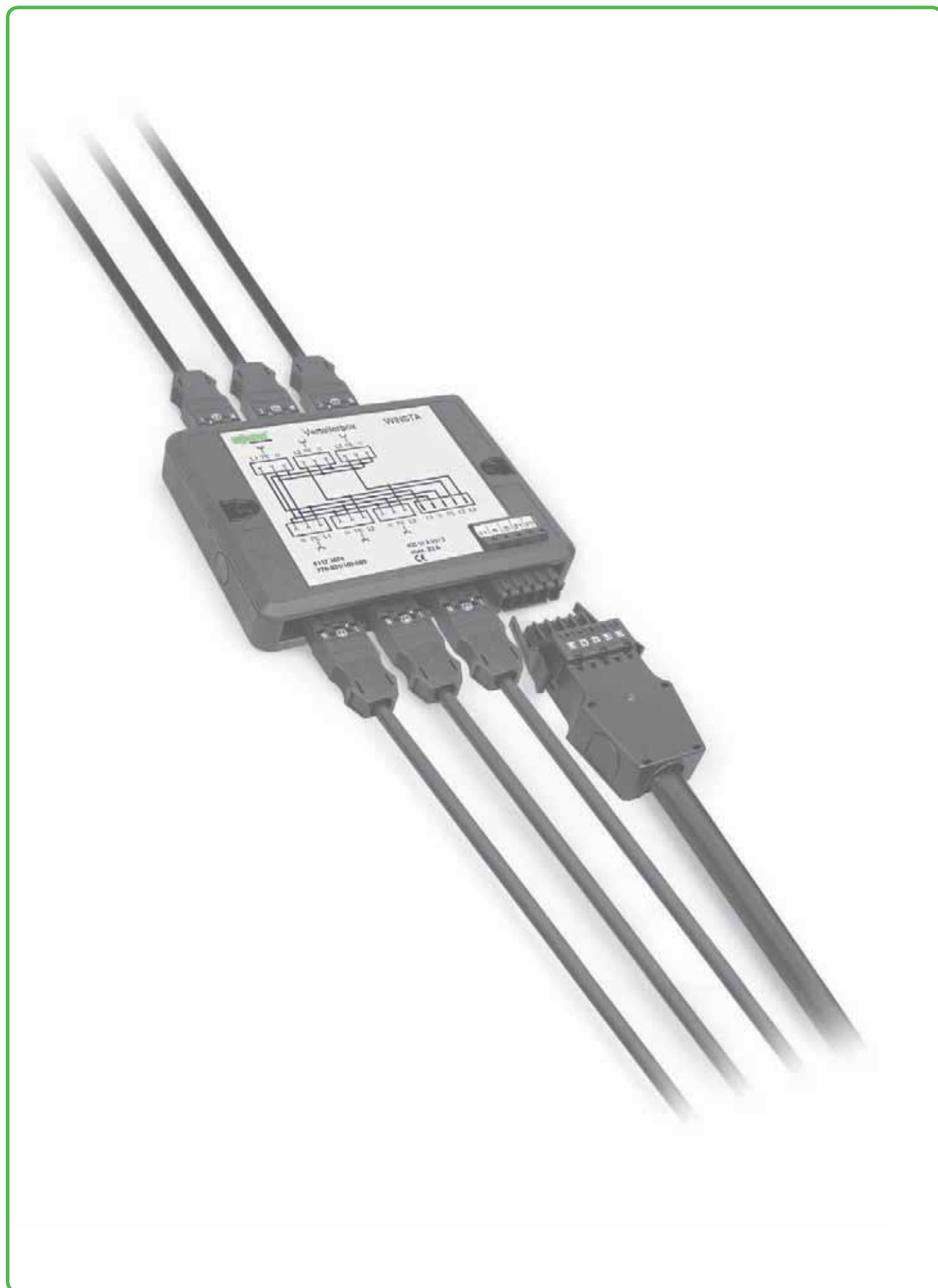
WINSTA® - The perfect connection!

Flat Cables 2 x 1.5 mm²/AWG 16



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

➊ 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>
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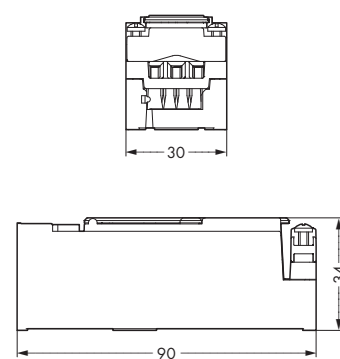
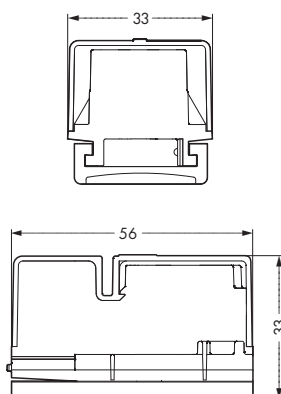
Description	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Supply module for flat cable 3 x 2.5 mm ² /AWG 14, Tap-off module for flat cable 3 x 2.5 mm ² /AWG 14, with screw connection	Supply module, with screw connection, for flat cable 3 x 2.5 mm ² /AWG 14			Quick tap-off module, with screw connection, for flat cable 3 x 2.5 mm ² /AWG 14		
	light gray	896-231	10	light gray	896-232	10
	Tightening torque 0.7 Nm			Tightening torque 0.7 Nm		
	Phillips no. 1 screwdriver			Phillips no. 1 screwdriver		

Accessories

[illegible]

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

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.



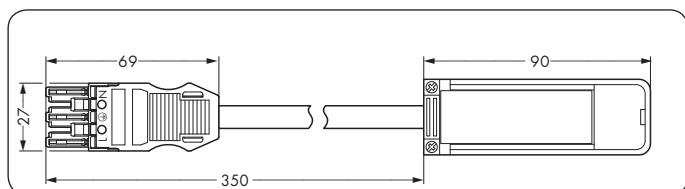
Cut outgoing feeder cable, remove outer and inner insulation and insert stripped wires. Tighten screws firmly. (Tightening torque 0.7 Nm)



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

Description	Color	Item no.	Pack.-unit
Flat cable 5 x 2.5 mm ² /AWG 14	Flat cable PVC 3 x 2.5 mm ² , L + N + PE		
	light gray	897-231	
	Flat cable halogen-free 3 x 2.5 mm ² /AWG 14, L + N + PE		
	light gray	897-232	
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

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

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1 Approvals



Tightening torque 0.7 Nm

Accessories

Fixing clamp, for screw mounting



black	897-859	100
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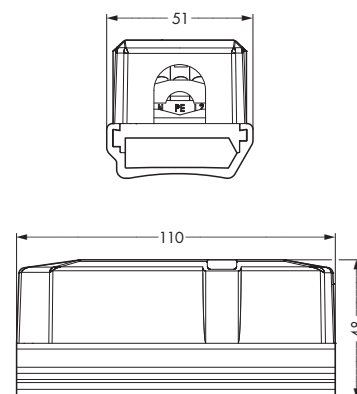
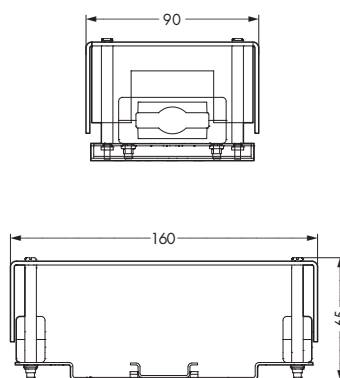
black	897-859	100
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Info

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.







The technical drawing shows two views of the SPS 8000 system:

- Front View (Top):** A square unit with a width dimension of 85.
- Side View (Bottom):** A long, thin profile with a height dimension of 72.9 and a length dimension of 200.

Flat cable 5 x 16 mm²/AWG 6
0.6/1kV

❶ 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	
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

Assembled version



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



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



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

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Tools

Operating Tool, Screwdrivers

Cable Cutter, Stripping Tools

Stripping Pliers, Wire Cutters, Stripping Knives

124

125

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Wiring Aid

Self-Adhesive Marker Strips

127



Operating Tools

Insulated operating tool for WINSTA® MINI connectors	Screwdriver with partially insulated shaft for optimal operation of connectors	Screwdriver with insulated shaft for optimal operation of 772 Series IDC Modules
--	--	--



Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	
Operating tool, insulated, for 890 Series WINSTA® MINI Connectors		Screwdriver, with partially insulated shaft, blade 2.5 mm x 0.4 mm (0.098 in x 0.0157 in)			Screwdriver, ① short version, blade 6.5 mm x 1.2 mm (0.255 in x 0.047 in)			
2-way	890-392	1	green	210-619	1	green	210-635	1
3-way	890-393	1	Screwdriver, with partially insulated shaft, blade 3.5 mm x 0.5 mm (0.138 in x 0.0197 in)			Screwdriver, ② with insulated shaft, blade 6.5 mm x 1.2 mm (0.255 in x 0.047 in)		
			green	210-620	1	green	210-636	1
			Screwdriver, with partially insulated shaft, blade 5.5 mm x 0.8 mm (0.216 in x 0.0314 in)					
			green	210-621	1			
			Screwdriver set, with partially insulated shaft, consists of 210-619, 210-620 and 210-621					
			green	210-622	1			




Cable Cutter and Stripping Tools

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



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

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

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.

Stripping Pliers, Wire Cutters, Stripping Knives

Stripping pliers	Wire cutters	Stripping knives
------------------	--------------	------------------



Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit	Color	Item no.	Pack.-unit
Stripping pliers, with insulated handles			Wire cutters, with partially insulated handles			Stripping knives		
red	897-931	1	red	897-970	1	light gray	897-951	1
for flat cables			for flat cables			for flat cables		
3 x 2.5 mm²/AWG 14			5 x 10 mm²/AWG 8			5 x 10 mm²/AWG 8		
			5 x 16 mm²/AWG 6					
red	897-971	1	red	897-972	1	light gray	897-952	1
for flat cables			for flat cables			for flat cables		
2 x 1.5 mm²/AWG 16			2 x 1.5 mm²/AWG 16			5 x 16 mm²/AWG 6		
5 x 2.5 mm²/AWG 14			3 x 2.5 mm²/AWG 14					
5 x 4 mm²/AWG 12			5 x 2.5 mm²/AWG 14					
5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16			5 x 4 mm²/AWG 12					
			5 x 2.5 mm²/AWG 14 + 2 x 1.5 mm²/AWG 16					

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

8



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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POPP GmbH

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WILA Leuchten GmbH

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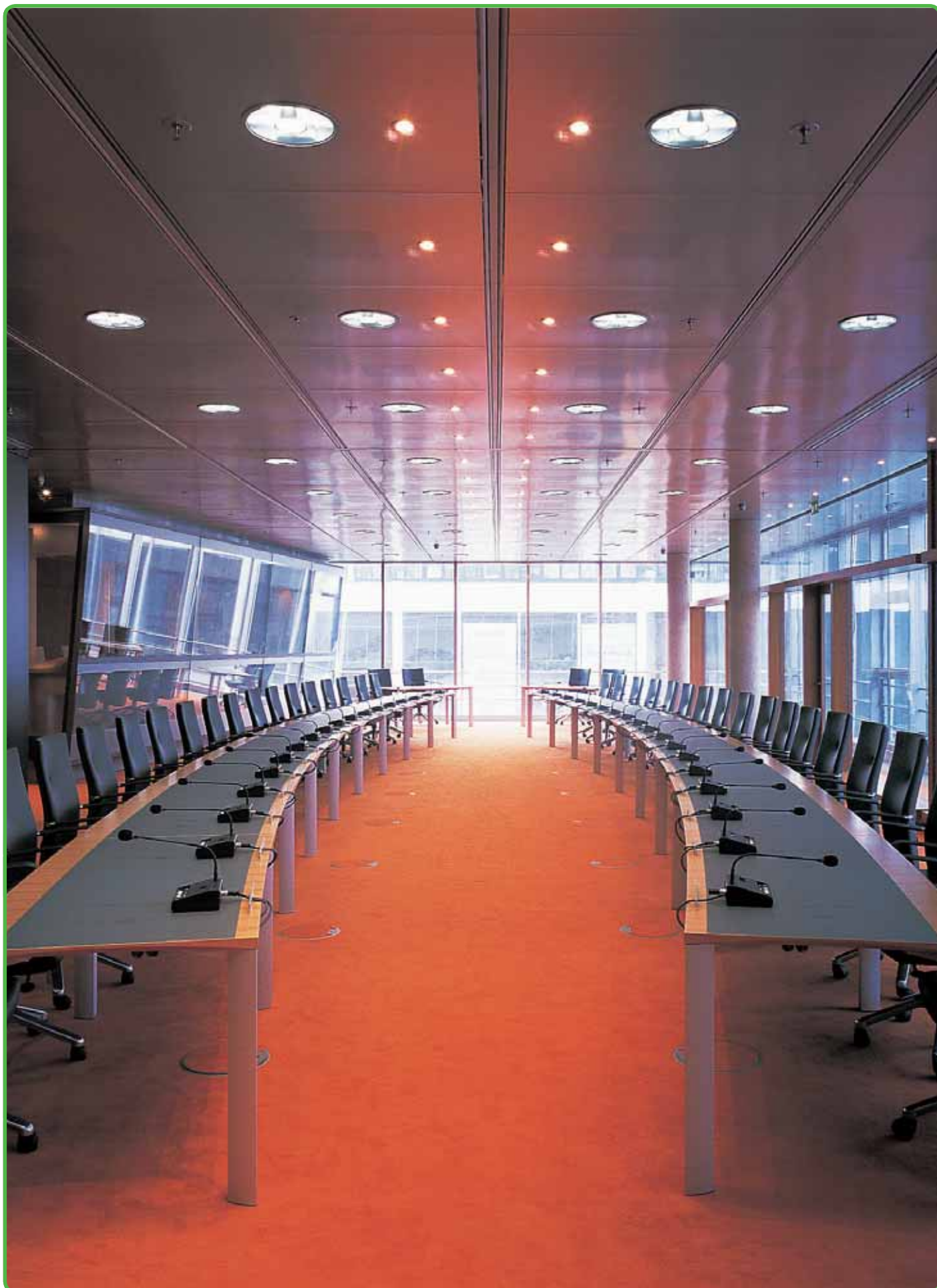
PUK-WERKE KG

133

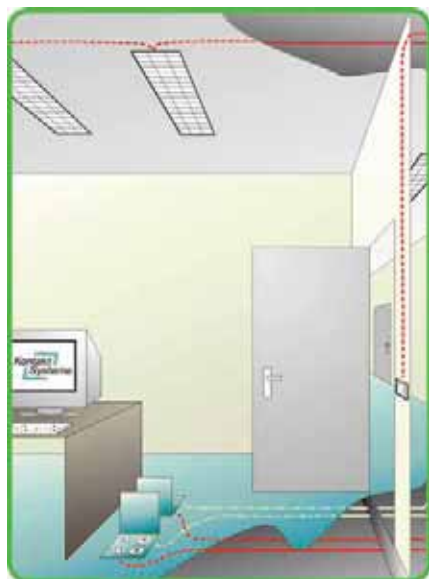


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FLEXISS flexible installation system
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ceiling:
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The following types of luminaires are available with **WINSTA®**:

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

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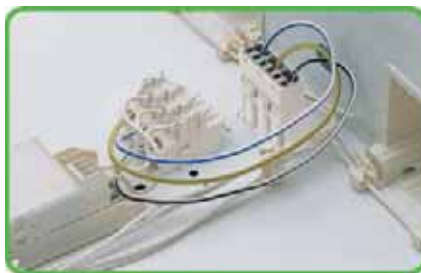
Suspended luminaire



Linear fluorescent luminaire



Louvered luminaire

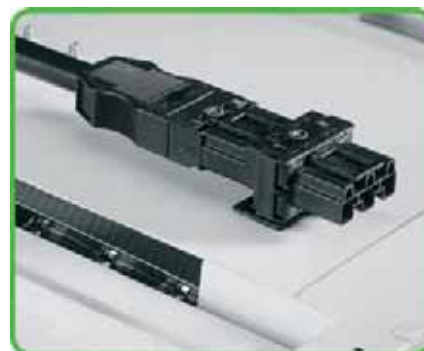


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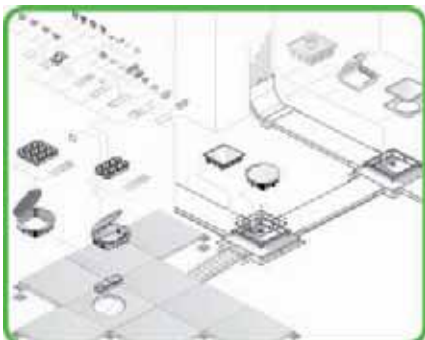
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- Meta ZD (pendant luminaires)



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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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- EVOLine® Express
- EVOLine® Dock
- EVOLine® Port



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Comfit® S



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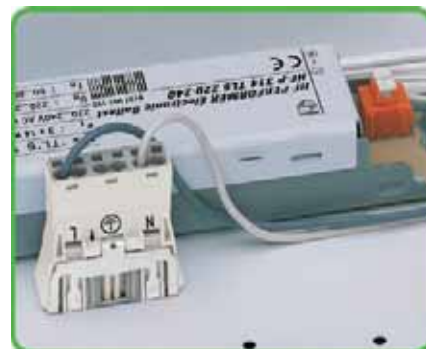
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The following types of luminaires are available with WINSTA®:

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- E Connect MS3
- circLet MS3
- Variatic recessed luminaire

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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

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9



Marine Applications

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Airports

140



Motor Homes

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Trade Show Design

141



Office Buildings

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Prefabricated Houses

142



Lab Work Stations

143



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



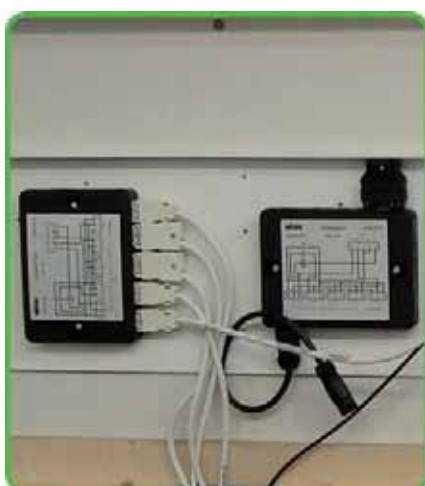
LMC Caravan GmbH & Co. KG in 48336 Sassenberg, Germany, is a manufacturer of mobile homes and trailers. They use **WINSTA®** for the installations in the mobile homes and trailers. The utiliza-



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



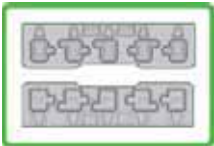
Bombardier Transportation Berlin uses plug-in connectors of the **WINSTA®** system in their "Talent Connex Pool". For the voltage supply at passenger seats, e.g. for the connection of notebooks to



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



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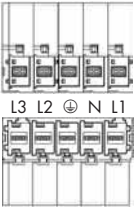

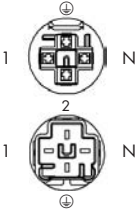
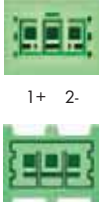
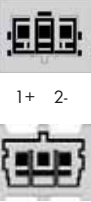


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Description	WINSTA MINI		WINSTA MIDI		
	2-pole	3-pole	3-pole	4-pole	5-pole
Series	890 / 891	890 / 891	770 / 771 / 772❶	770 / 771	770 / 771 / 772❶
Coding A black white e.g., universal applications	 N- L+	 N ⊕ L	 N ⊕ L	 1 2 ⊕ N	 L3 L2 L1 ⊕ N
Coding B 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				E 	F 
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 section0.5 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 resistanceApprox. 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 diameter5-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:

- 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

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 mm²/AWG 20 solid
● Contact resistance	Approx. 5 mΩ contact resistance
● Approvals	EIB manual
● Degree of protection	in mated condition with strain relief housing: IP 20
● Cable diameter	Ø 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	≤ 85 °C PVC cable for temperatures ≤ 70 °C (including halogen-free) Insulating parts for temperatures ≤ 105 °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 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 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

156

Updated approvals can be found at www.wago.com

• 1: Select "Country"



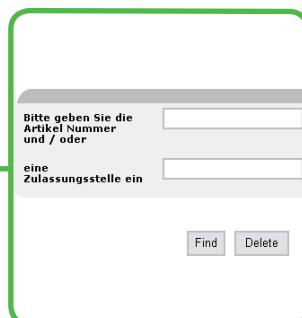
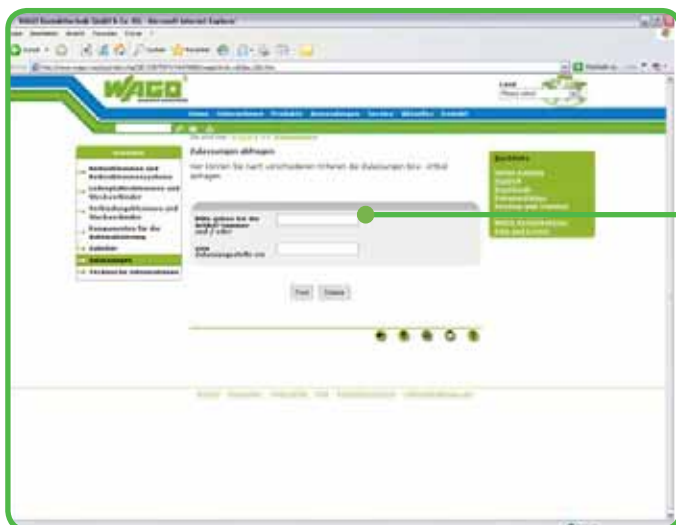
e.g., Germany

• 2: Select "Products"

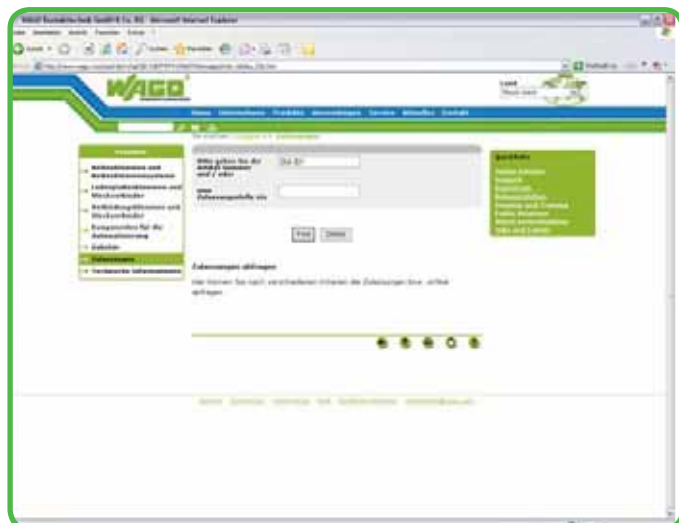


Select "Approvals"

• 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

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