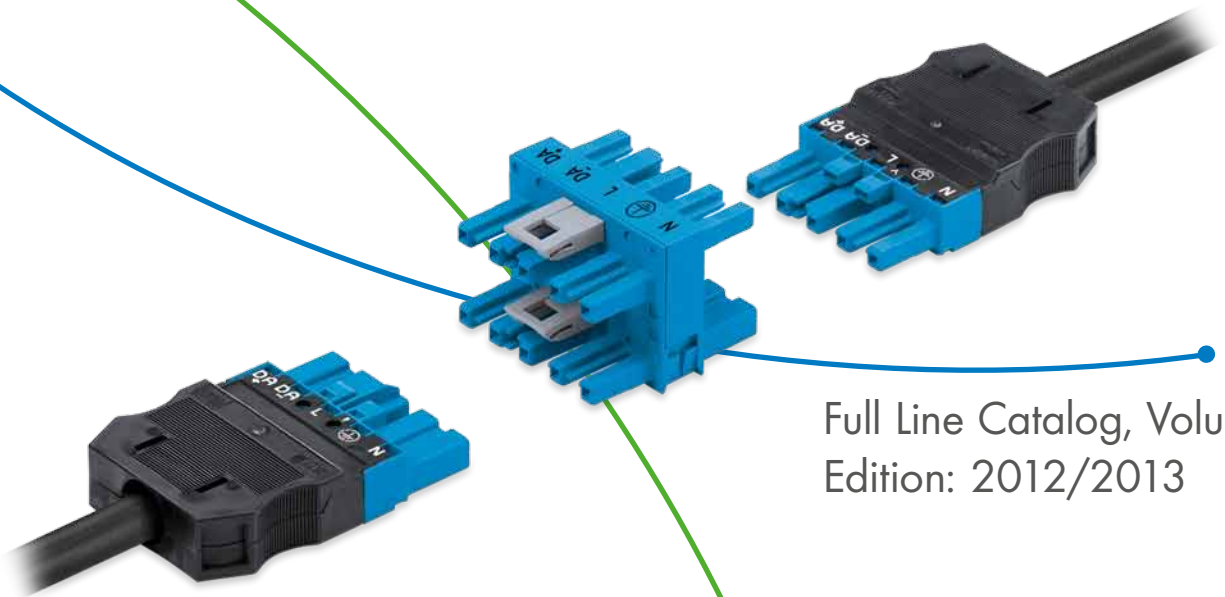


# WINSTA® The Pluggable Connection System



Full Line Catalog, Volume 5  
Edition: 2012/2013

5

**WAGO**®  
INNOVATIVE CONNECTIONS

# WAGO Registered Trademarks



CAGE CLAMP®

CAGE CLAMP® **S**

POWER CAGE CLAMP

FIT CLAMP®

PUSH WIRE®

TOPJOB®

TOPJOB® **S**

WINSTA®

WAGO®

X-COM®

X-COM® **S**

JUMPFLEX®

TO-PASS®

ProServe®

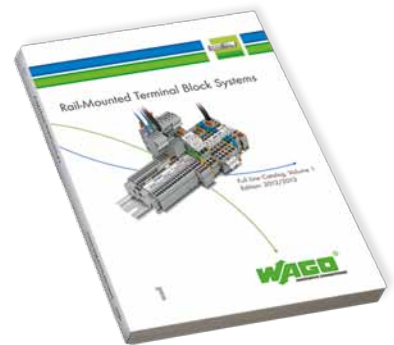
EPSITRON®

picoMAX®

# WAGO Full Line Catalogs

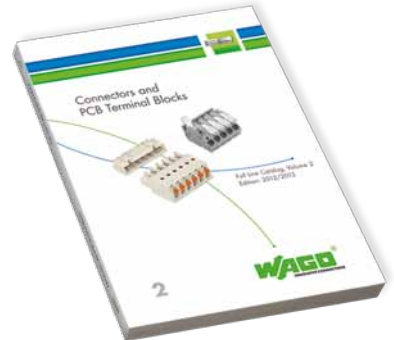
## Volume 1, Rail-Mounted Terminal Block Systems

- Rail-Mounted Terminal Blocks
- Modular Connectors (X-COM®-SYSTEM and X-COM®S-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System



## Volume 2, Connectors and PCB Terminal Blocks

- PCB Terminal Blocks
- Feedthrough Terminal Blocks
- MULTI CONNECTION SYSTEM (MCS)
- Pluggable PCB Terminal Blocks
- Specialty Connectors



## Volume 3, AUTOMATION

- IP20 Modular I/O-SYSTEM
- Radio Technology, TO-PASS® Telecontrol Technology
- Industrial Switches, PERSPECTO®
- IP67 Modular I/O-SYSTEM, IP67 Block I/O-SYSTEM
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors
- Power Supplies



## Volume 4, INTERFACE ELECTRONIC

- Relays - Optocouplers - Specialty Functions
- Interface Modules
- Transducers
- Power Supplies
- Overvoltage Protection
- Wireless Technology
- Empty Housings and DIN-Rail Mount Carriers



## Volume 5, WINSTA® - The Pluggable Connection System

- WINSTA® MINI - Pluggable Connectors
- WINSTA® MINI special - Pluggable Connectors
- WINSTA® MIDI - Pluggable Connectors
- WINSTA® MIDI special - Pluggable Connectors
- WINSTA® MAXI - Pluggable Connectors
- WINSTA® RD - Cable Assemblies
- WINSTA® KNX - Pluggable Connectors
- WINSTA® IDC - Flat Cables



# Operation of WAGO Connection Technologies\*

## CAGE CLAMP® S



### The universal connection with "SPECIAL"

Handling:

- Open clamping unit.
- Insert conductor until it hits backstop.
- Release clamp – done!
- Terminate both solid and ferruled conductors by simply pushing them in – no operating tool needed.

## CAGE CLAMP®



### The universal connection for solid, stranded and fine-stranded conductors

Handling:

- Open clamping unit.
- Insert conductor until it hits backstop.
- Release clamp – done!

## POWER CAGE CLAMP®



### The universal connection for conductors larger than 6 AWG (16 mm<sup>2</sup>)

Handling:

- Open clamp by turning appropriate hex wrench, or operating tool, counter-clockwise.
- Press integrated latch to open clamping unit for hands-free wiring.
- Insert conductor until it hits backstop.
- Unlock the locking tab with a short counterclockwise turn of the Allen wrench.

## FIT CLAMP®



### Insulation Displacement Connection (IDC)

Handling:

- Push unstripped conductor into the IDC contact using an operating tool.

## PUSH WIRE®



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

Handling:

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

\* Please follow applicable product instructions for product-specific handling.



# CONTENTS VOLUME 5




**WINSTA® MINI** 890/891 Series; 2-, 3-, 4- and 5-Pole 6 - 37  
 Pluggable Connectors, Snap-In Device Connectors, Distribution Connectors,  
 Cable Assemblies



**WINSTA® MINI special** 890/891 Series; 2-, 3- and 4-Pole 38 - 55  
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 Cable Assemblies



**WINSTA® MIDI** 770/771 Series; 2-, 3-, 4-, 5-, 6- and 7-Pole  56 - 141  
 Linect® T-Connectors, Pluggable Connectors, Snap-In Device Connectors,  
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 IP 2XD Strain Relief Housings and Cable Assemblies, Distribution Boxes



**WINSTA® MIDI special** 770/771 Series; 2-, 3-, 4- and 5-Pole 142 - 173  
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**WINSTA® MAXI** 831 Series; 5-Pole 174 - 177  
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# WINSTA® – A Complete Series

## Perfects the System.

### The WINSTA® Pluggable Connection System

forms the electrical interface from power supply and distribution to electrical loads (e.g., lights). It also encompasses data processing (bus lines in building automation).

#### WINSTA® MAXI



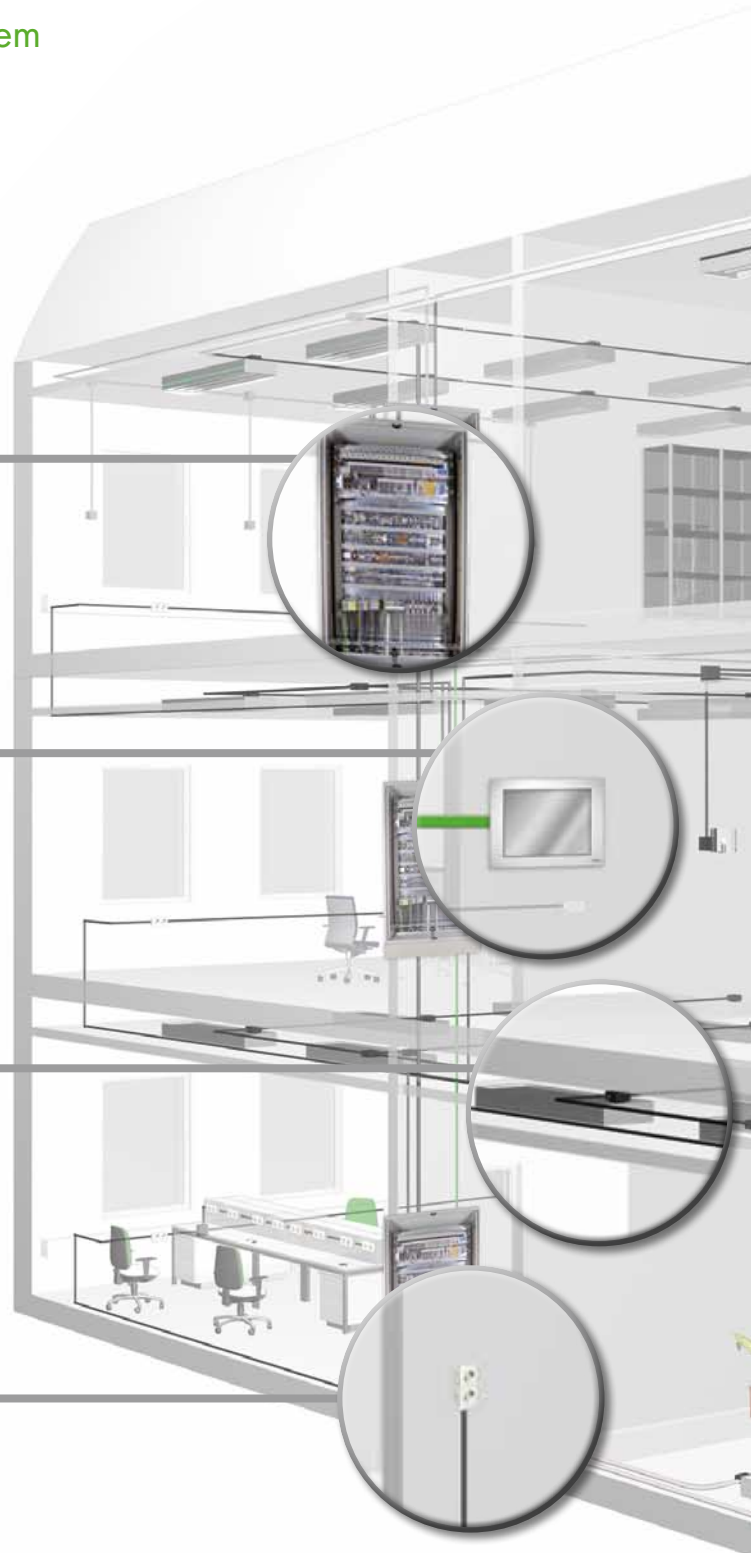
#### WINSTA® MINI/ WINSTA® MINI special

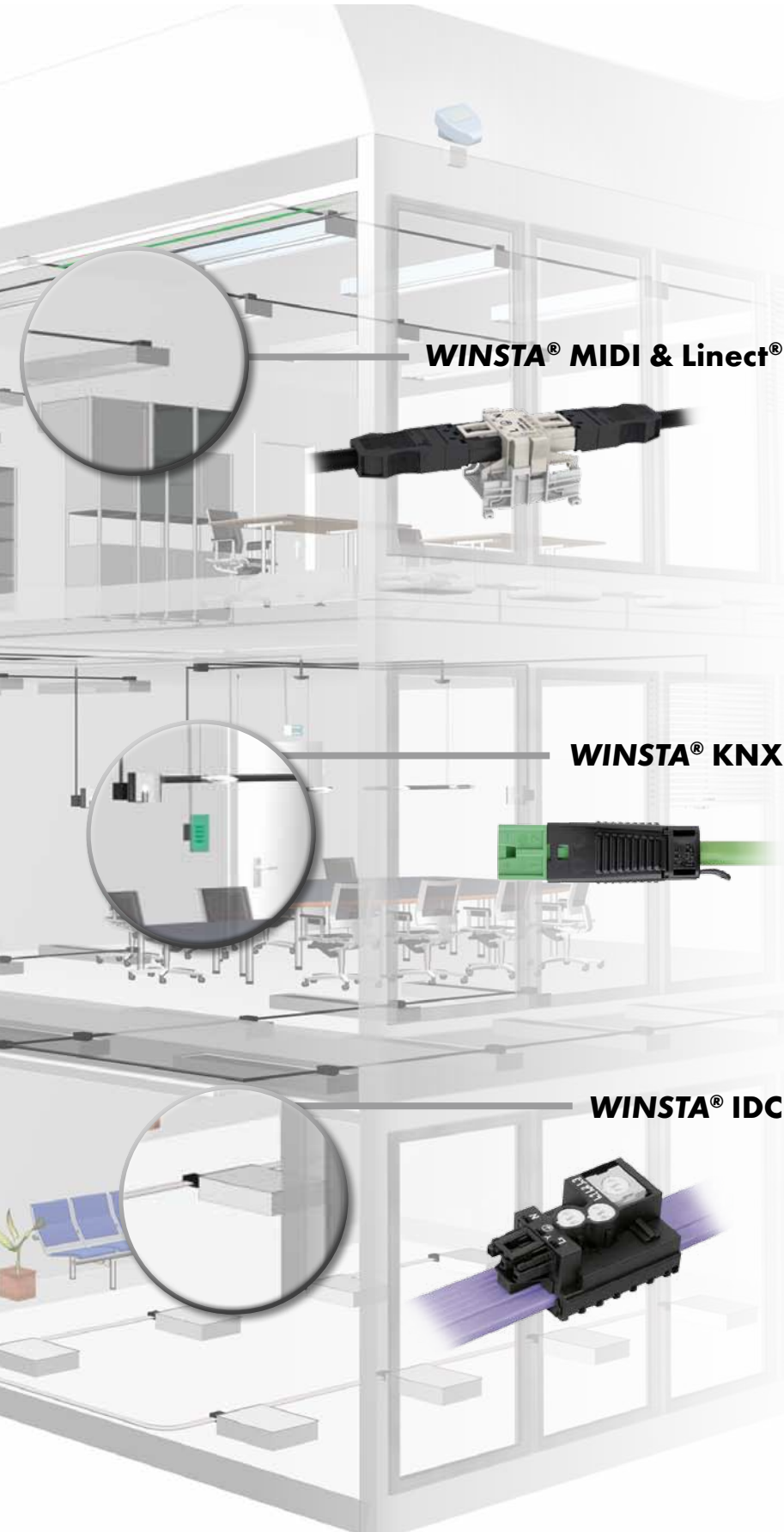


#### WINSTA® MIDI/ WINSTA® MIDI special



#### WINSTA® RD





### **WINSTA® MIDI & Linect®**



### **WINSTA® KNX**



### **WINSTA® IDC**



By interconnecting all electrical components, **WINSTA®** endows modern buildings with high levels of flexibility and durability that readily satisfy stringent norms and standards.

The **WINSTA®** family offers a connection solution for virtually any building requirement from power supply to bus lines. Each unique **WINSTA®** model has been specifically developed to satisfy pole requirements, installation restrictions and current-carrying capacities.

Each **WINSTA®** model line contains both individual components (e.g., plugs, sockets, h-distribution connectors, T-distribution connectors, distribution boxes) and cable assemblies in construction-industry standard lengths.

These 2- to 7-pole **WINSTA®** components are packaged upon order and provided on-site to customers.

### **Comprehensive WAGO project support:**

WAGO offers consulting and project planning services to help devise the best possible solution for your project. Our experienced team of professionals will gladly help you implement your project with our products.

**Contact your regional agent.**

**WINSTA® – Perfectly plugged!**



**Note:**

- Installation connectors are designed for connection and disconnection while not under load.
- There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
- Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
- Installation connector systems are not a substitute for residential connector/socket systems.
- WINSTA® MINI connectors are not intended for installation in open or easily accessible areas.



**890 Series**

- Pluggable Connectors, 2-Pole
- Pluggable Connectors, 3-Pole
- Pluggable Connectors, 4-Pole
- Pluggable Connectors, 5-Pole

10 - 11  
18 - 19  
24 - 25  
30 - 31



**890 Series**

- Snap-In Device Connectors, 2-Pole
- Snap-In Device Connectors, 3-Pole
- Snap-In Device Connectors, 4-Pole
- Snap-In Device Connectors, 5-Pole

12  
20  
26  
32



**890 Series**

- Distribution Connectors, 2-Pole
- Distribution Connectors, 3-Pole
- Distribution Connectors, 4-Pole
- Distribution Connectors, 5-Pole

13  
21  
27  
33



**891 Series**

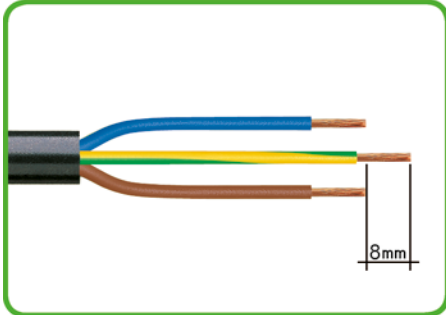
- Cable Assemblies, 2-Pole
- Cable Assemblies, 3-Pole
- Cable Assemblies, 4-Pole
- Cable Assemblies, 5-Pole

14 - 17  
22 - 23  
28 - 29  
34 - 37

# 1 Handling WINSTA® MINI, 890 Series

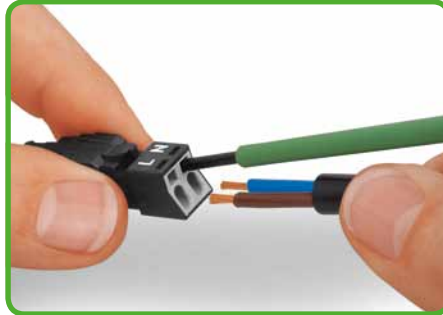
8

## Preparation



1. Strip length, outer insulation = x mm <sup>1</sup>
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

## Termination via CAGE CLAMP® S



To terminate fine-stranded conductors, open clamping unit via 2.5mm screwdriver and insert stripped conductor until it hits backstop. Solid conductors can be terminated by simply pushing them in.

## Strain relief installation



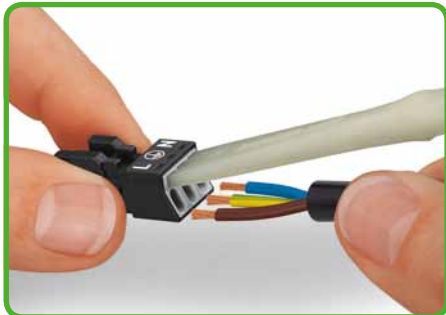
Latch wired connector onto the base of the strain relief housing.

## Conductor termination with . . .



To terminate fine-stranded conductors, open clamping units via 890-392 operating tool and insert stripped conductors until they hit backstop. Solid conductors can be terminated by simply pushing them in.

## . . . Operating tool



To terminate fine-stranded conductors, open clamping units via 890-393 operating tool and insert stripped conductors until they hit backstop. Solid conductors can be terminated by simply pushing them in.



## Shield termination



Connector with shield termination



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



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

<sup>1</sup> Strip length, outer insulation: 2-pole = 30mm, 3-pole = 37mm, 4- and 5-pole = 45mm





Push down strain relief clamp by hand.



Push down strain relief clamp via 2.5mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.

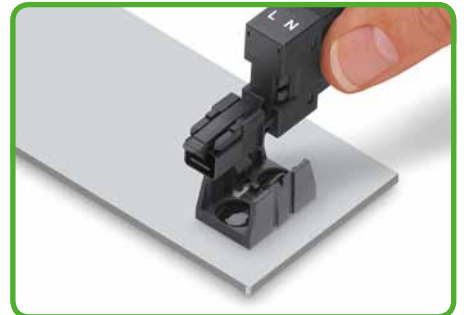


**Mounting plate installation**



Securing the mounting plate via fixing pins.

**Snapping on distribution connector**



The distribution connectors snap together when attached to the mounting plate.

**Locking lever assembly**



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





All connectors (snap-in versions, distribution connectors) for fixed installations are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).

**Marking**



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



<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
---	--------------------	---	--------------------



**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 2-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 3.8 – 8.2 mm cable diameter			Plug with strain relief housing, for 3.8 – 8.2 mm cable diameter		
	● black	890-102	50	● black	890-112	50
	○ white	890-122	50	○ white	890-132	50

Item-Specific Accessories						
	Operating tool, insulated 2-pole			Operating tool, insulated 2-pole		
		890-392	1		890-392	1

Accessories, 890 Series						
	Locking lever, for “flying leads,” tool operated			Locking lever, for “flying leads,” tool operated		
		black 890-111	100 (2x50)		black 890-111	100 (2x50)
		white 890-131	100 (2x50)		white 890-131	100 (2x50)
	Mounting carrier, for 2- to 5-pole “flying leads”			Mounting carrier, for 2- to 5-pole “flying leads”		
		black 890-310	100		black 890-310	100
		white 890-311	100		white 890-311	100

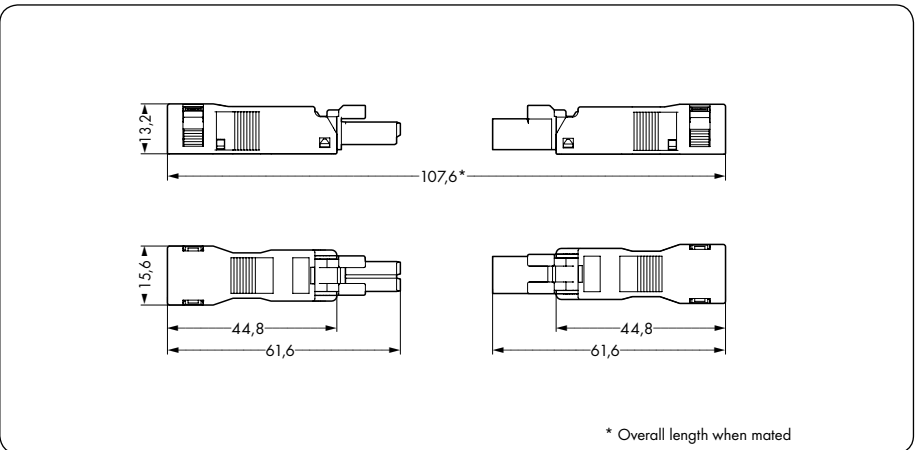
Info	Dimensions
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① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> “s + f-st”  
0.25 – 1 mm<sup>2</sup> “stranded”

② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.

● black Coding A (L N)  
○ white Coding A (L N)  
● blue Coding I (+ -)

For coding information, see pages 224 to 226.  
Fire load data available upon request.











<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 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 housings for: - 2-pole sockets - 2-pole plugs</p>
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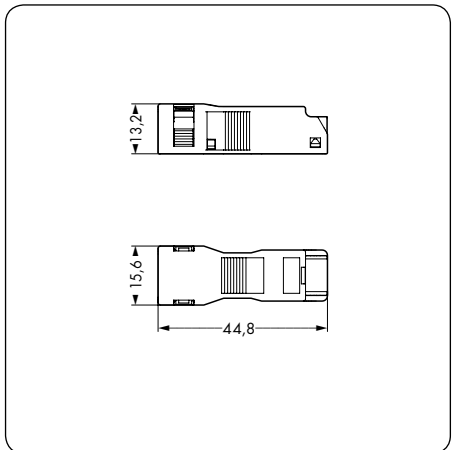
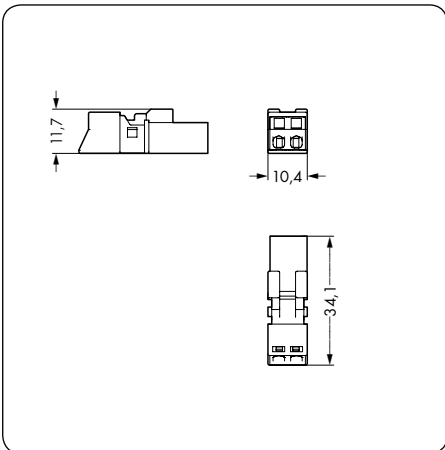
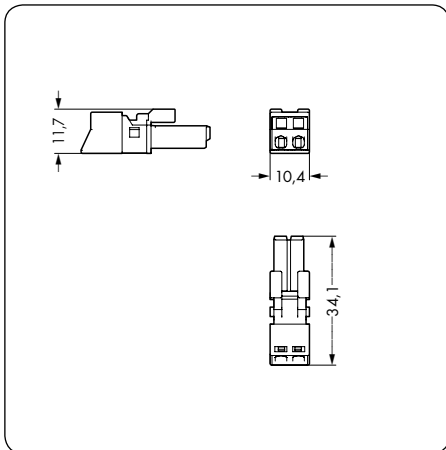


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>			<b>Strain relief housing, for 3.8 – 8.2 mm cable diameter</b>		
● black	890-202	50	● black	890-212	50	black	890-502	50
○ white	890-222	50	○ white	890-232	50	white	890-512	50
● blue	890-1102	50	● blue	890-1112	50			

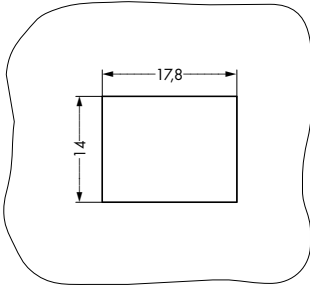
Item-Specific Accessories		
<p><b>Operating tool, insulated</b> 2-pole</p>  <p>890-392 1</p>	<p><b>Operating tool, insulated</b> 2-pole</p>  <p>890-392 1</p>	

Accessories, 890 Series		
<p><b>Locking lever, for "flying leads,"</b> tool operated</p>  <p>black 890-111 100 (2x50) white 890-131 100 (2x50)</p>	<p><b>Locking lever, for "flying leads,"</b> tool operated</p>  <p>black 890-111 100 (2x50) white 890-131 100 (2x50)</p>	
<p><b>Mounting carrier, for 2- to 5-pole</b> "flying leads"</p>  <p>black 890-310 100 white 890-311 100</p>	<p><b>Mounting carrier, for 2- to 5-pole</b> "flying leads"</p>  <p>black 890-310 100 white 890-311 100</p>	

**Dimensions**



Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16
	9 mm / 0.35 in ② Approvals		9 mm / 0.35 in ② Approvals	



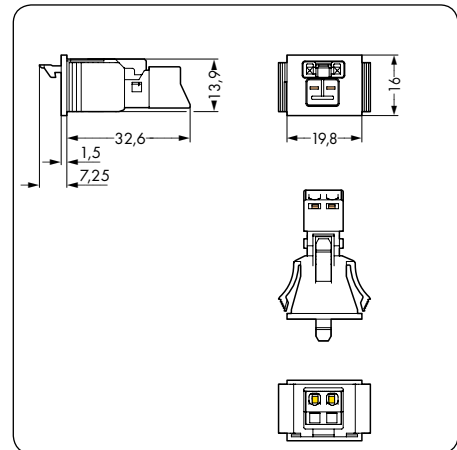
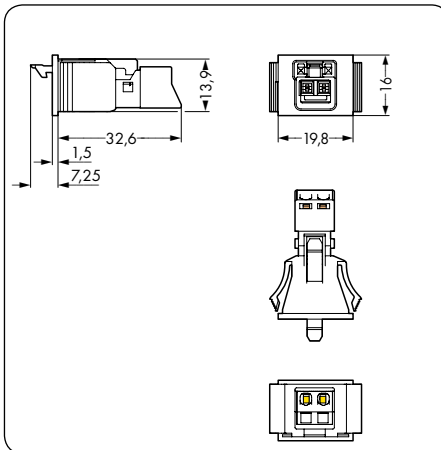
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 2-pole, with CAGE CLAMP® S connection	Socket			Plug		
	● black	890-702	50	● black	890-712	50
	○ white	890-722	50	○ white	890-732	50
	● blue	890-2102	50	● blue	890-2112	50

Item-Specific Accessories						
		Operating tool, insulated 2-pole 		Operating tool, insulated 2-pole 		
		890-392	1	890-392	1	

Accessories, 890 Series						
		Lockout cap, for cutout, 2-pole 		Lockout cap, for cutout, 2-pole 		
		black	890-642	100	black	890-642
		white	890-692	100	white	890-692

Info	Dimensions
------	------------

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
  - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- black    Coding A    (L N)  
 ○ white    Coding A    (L N)  
 ● blue    Coding I    (+ -)
- For coding information, see pages 224 to 226.  
 Fire load data available upon request.






# Distribution Connectors, 2-Pole

	<p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>② Approvals</p>	<p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>② Approvals</p>
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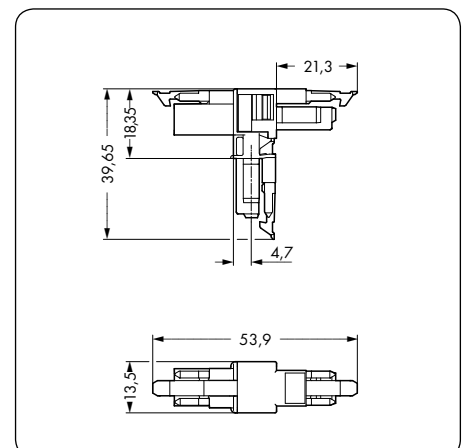
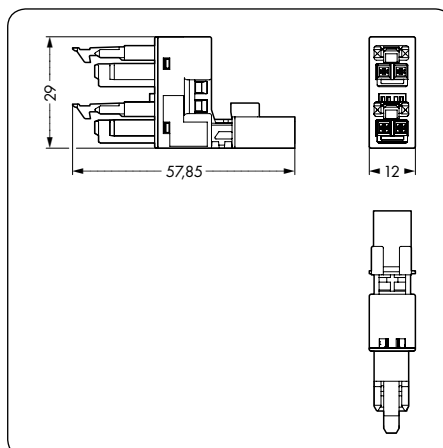


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
h-distribution connector, 2-pole	h-distribution connector, unidirectional, plug / socket - socket			T-distribution connector, 1 x plug / 2 x socket		
T-distribution connector, 2-pole	● black	890-1634	50	● black	890-1606	25
	○ white	890-1684	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

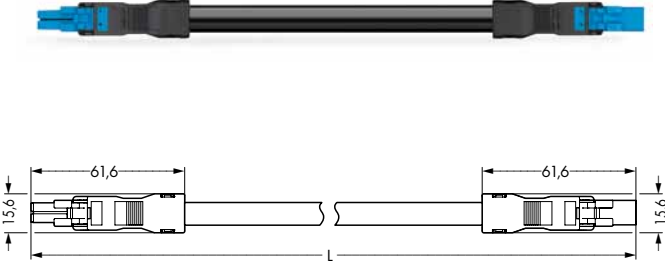

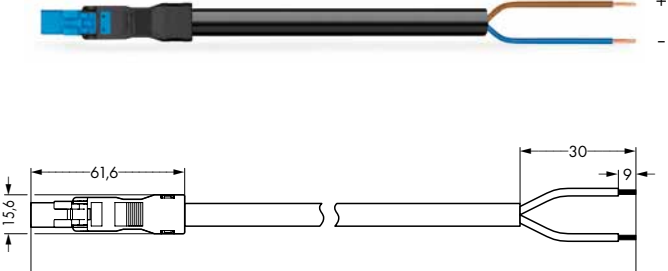


Item-Specific Accessories						
<b>Mounting plate</b> , for distribution connectors						
			black	890-1622	100	
			white	890-1672	100	
<b>Fixing pin</b> , for mounting plates						
			● black	890-601	250	



Accessories, 890 Series								
<b>Locking lever</b> , for "flying leads," tool operated			<b>Locking lever</b> , for "flying leads," tool operated					
			black	890-111	100 (2x50)	black	890-111	100 (2x50)
			white	890-131	100 (2x50)	white	890-131	100 (2x50)


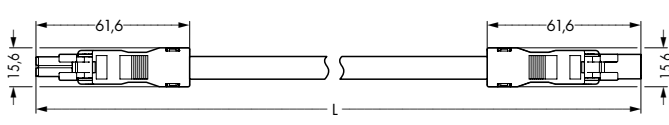

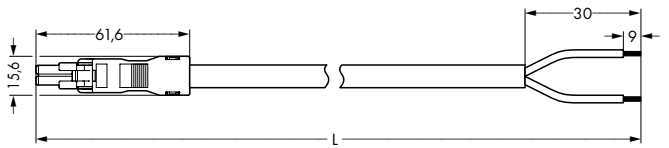

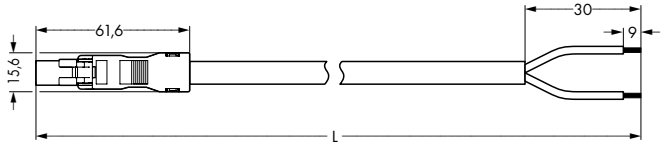


## Dimensions





		PVC H05VV-F 2x1 halogen-free H05Z1 Z1-F 2x1  250 V/4 kV/3 I <sub>N</sub> 10 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		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
		5 m	891-8992/005-501	.../005-502	891-8992/015-501	.../015-502
		7 m	891-8992/005-701	.../005-702	891-8992/015-701	.../015-702
<b>Connecting cable, socket – free end</b>		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
		5 m	891-8992/105-501	.../105-502	891-8992/115-501	.../115-502
		7 m	891-8992/105-701	.../105-702	891-8992/115-701	.../115-702
<b>Connecting cable, plug – free end</b>		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
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	<p>PVC H05VV-F 2x1 halogen-free H05Z1Z1-F 2x1</p> <p>250 V/4 kV/3 I<sub>N</sub> 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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		PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5  250 V/4 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		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
		5 m	891-8992/006-501	.../006-502	891-8992/016-501	.../016-502
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		1 m	891-8992/106-101	.../106-102	891-8992/116-101	.../116-102
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<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
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		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
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## Sockets and Plugs, 3-Pole

<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).







Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket with strain relief housing, for 4.5 – 10 mm cable diameter			Plug with strain relief housing, for 4.5 – 10 mm cable diameter		
	● black	890-103	50	● black	890-113	50
	○ white	890-123	50	○ white	890-133	50

**Item-Specific Accessories**

	<p><b>Operating tool, insulated</b> 3-pole</p> <p> <b>890-393</b> 1</p>	<p><b>Operating tool, insulated</b> 3-pole</p> <p> <b>890-393</b> 1</p>
		<p><b>Shield connecting plate, for plugs and sockets</b> 3-way</p> <p> <b>890-523</b> 1</p>

**Accessories, 890 Series**

	<p><b>Locking lever, for “flying leads,”</b> tool operated</p> <p> black <b>890-111</b> 100 (2x50) white <b>890-131</b> 100 (2x50)</p>	<p><b>Locking lever, for “flying leads,”</b> tool operated</p> <p> black <b>890-111</b> 100 (2x50) white <b>890-131</b> 100 (2x50)</p>
	<p><b>Mounting carrier, for 2- to 5-pole</b> “flying leads”</p> <p> black <b>890-310</b> 100 white <b>890-311</b> 100</p>	<p><b>Mounting carrier, for 2- to 5-pole</b> “flying leads”</p> <p> black <b>890-310</b> 100 white <b>890-311</b> 100</p>

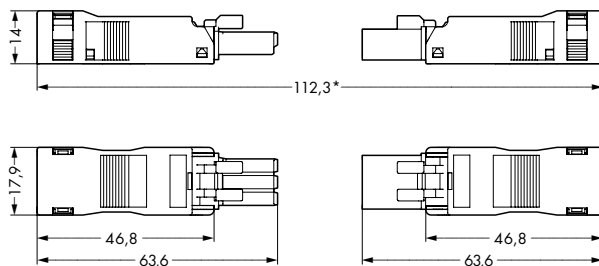
**Info**

**Dimensions**

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> “s + f-st”  
0.25 – 1 mm<sup>2</sup> “stranded”
- ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.



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

For coding information, see pages 224 to 226.  
Fire load data available upon request.






\* Overall length when mated







<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 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 housings for:</p> <ul style="list-style-type: none"> <li>- 3-pole sockets</li> <li>- 3-pole plugs</li> </ul>
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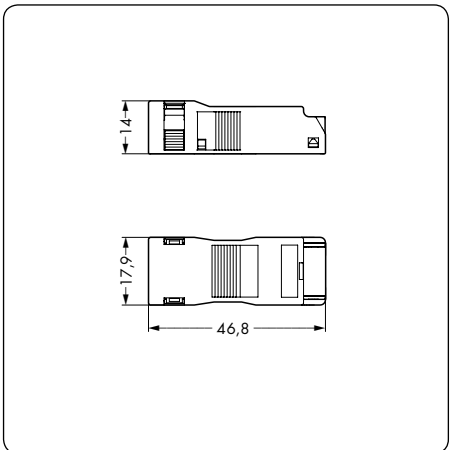
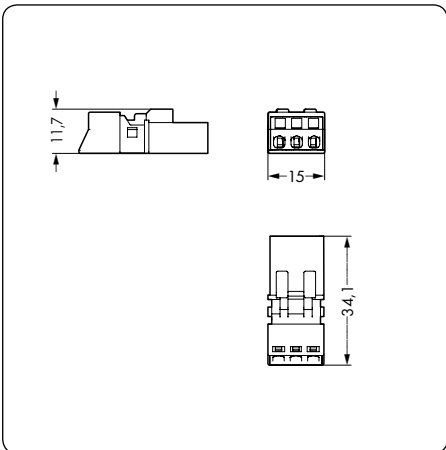
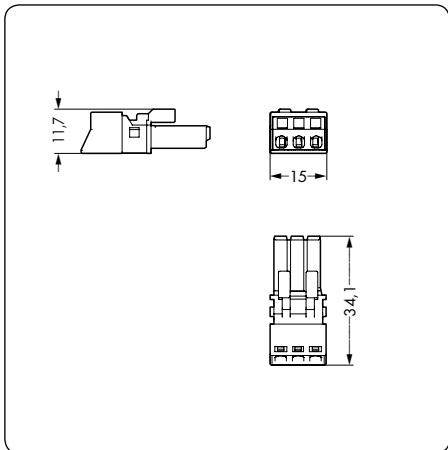


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>			<b>Strain relief housing, for 4.5 – 10 mm cable diameter</b>		
● black	890-203	50	● black	890-213	50	black	890-503	50
○ white	890-223	50	○ white	890-233	50	white	890-513	50

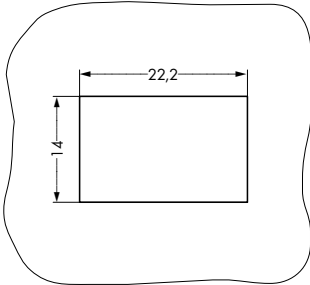
Item-Specific Accessories								
<b>Operating tool, insulated 3-pole</b>			<b>Operating tool, insulated 3-pole</b>			<b>Shield connecting plate, for plugs and sockets</b>		
	890-393	1		890-393	1		890-523	50

Accessories, 890 Series								
<b>Locking lever, for "flying leads," tool operated</b>			<b>Locking lever, for "flying leads," tool operated</b>					
	black 890-111	100 (2x50)		black 890-111	100 (2x50)			
	white 890-131	100 (2x50)		white 890-131	100 (2x50)			
<b>Mounting carrier, for 2- to 5-pole "flying leads"</b>			<b>Mounting carrier, for 2- to 5-pole "flying leads"</b>					
	black 890-310	100		black 890-310	100			
	white 890-311	100		white 890-311	100			

**Dimensions**



<b>Cutout dimensions</b>  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16
	9 mm / 0.35 in ② Approvals		9 mm / 0.35 in ② Approvals	



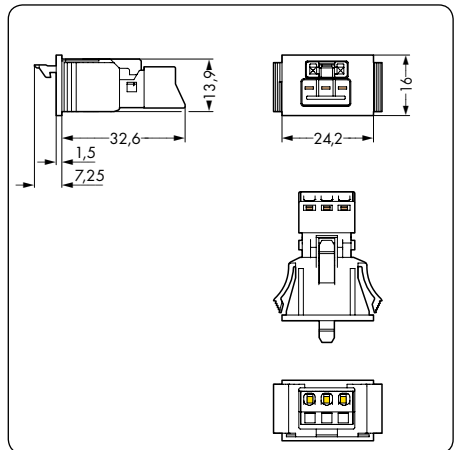
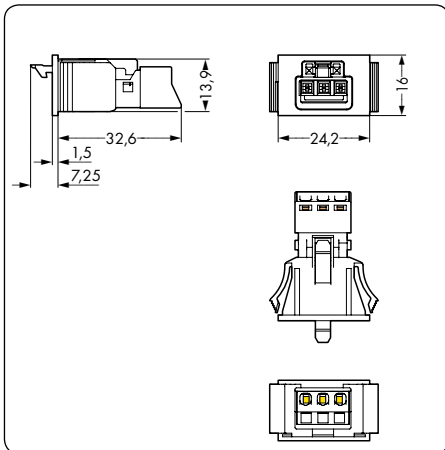
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP® S connection</b>	<b>Socket</b>			<b>Plug</b>		
	● black	<b>890-703</b>	50	● black	<b>890-713</b>	50
	○ white	<b>890-723</b>	50	○ white	<b>890-733</b>	50
	without locking lever, for lighting installation with intermediate coupler			without locking lever, for lighting installation with intermediate coupler		
	● black	<b>890-703/006-000</b>	50	● black	<b>890-713/006-000</b>	50
	○ white	<b>890-723/006-000</b>	50	○ white	<b>890-733/006-000</b>	50

Item-Specific Accessories						
		<b>Operating tool, insulated</b> 3-pole 		<b>Operating tool, insulated</b> 3-pole 		
		<b>890-393</b>	1	<b>890-393</b>	1	

Accessories, 890 Series						
		<b>Lockout cap, for cutout, 3-pole</b> 		<b>Lockout cap, for cutout, 3-pole</b> 		
		black	<b>890-643</b>	100	black	<b>890-643</b>
		white	<b>890-693</b>	100	white	<b>890-693</b>

Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
  - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- black    Coding A    (L ⊕ N)  
○ white    Coding A    (L ⊕ N)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.





# Intermediate Couplers and T-Distribution Connectors, 3-Pole

250 V/4 kV/3 I <sub>N</sub> 16 A  ② Approvals	250 V/4 kV/3 I <sub>N</sub> 16 A  ② Approvals	250 V/4 kV/3 I <sub>N</sub> 16 A  ② Approvals
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Intermediate coupler,</b> 1 x plug / 1 x socket			<b>h-distribution connector, unidirectional,</b> plug / socket - socket			<b>T-distribution connector,</b> 1 x plug / 2 x socket		
● black	<b>890-603</b>	50	● black	<b>890-634</b>	50	● black	<b>890-606</b>	25
○ white	<b>890-653</b>	50	○ white	<b>890-684</b>	50	○ white	<b>890-656</b>	25
At least one snap-in connector <b>WITHOUT</b> locking lever is required on one side when connecting two lights directly via intermediate coupler (see page 20).			for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
● black	<b>890-636</b>	50	● black	<b>890-636</b>	50	● black	<b>890-615</b>	25
○ white	<b>890-686</b>	50	○ white	<b>890-686</b>	50	○ white	<b>890-665</b>	25

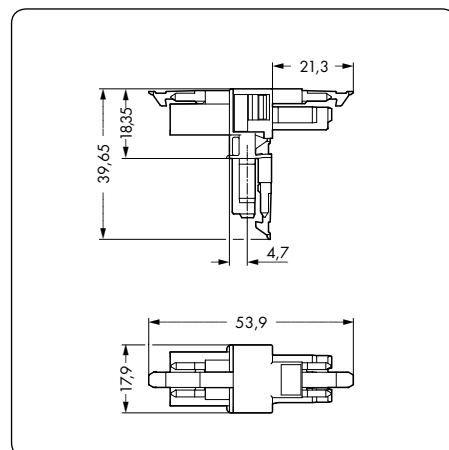
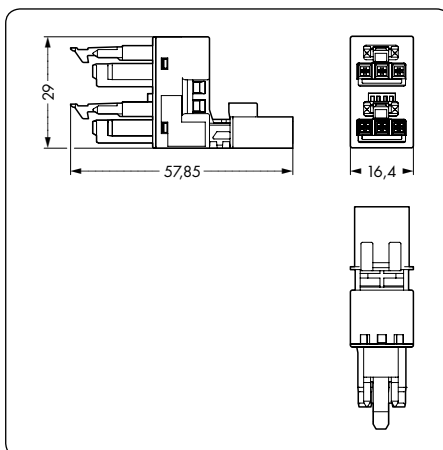
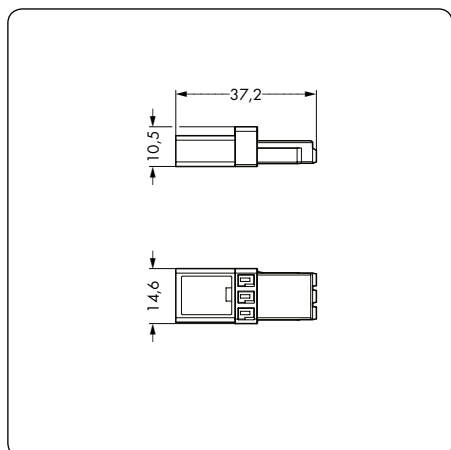
## Item-Specific Accessories

<b>Mounting plate, for distribution connectors</b>		
	black	<b>890-623</b> 100
	white	<b>890-673</b> 100
<b>Fixing pin, for mounting plates</b>		
	③ black	<b>890-601</b> 250

## Accessories, 890 Series

<b>Locking lever, for "flying leads,"</b> tool operated			<b>Locking lever, for "flying leads,"</b> tool operated		
	black	<b>890-111</b> 100 (2x50)		black	<b>890-111</b> 100 (2x50)
	white	<b>890-131</b> 100 (2x50)		white	<b>890-131</b> 100 (2x50)

## Dimensions



		PVC H05VV-F 3G1 halogen-free H05Z1Z1-F 3G1  250 V/4 kV/3 I <sub>N</sub> 10 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		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
		5 m	891-8993/005-501	.../005-502	891-8993/015-501	.../015-502
		7 m	891-8993/005-701	.../005-702	891-8993/015-701	.../015-702
<b>Connecting cable, socket – free end</b>		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
		5 m	891-8993/105-501	.../105-502	891-8993/115-501	.../115-502
		7 m	891-8993/105-701	.../105-702	891-8993/115-701	.../115-702
<b>Connecting cable, plug – free end</b>		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
		5 m	891-8993/205-501	.../205-502	891-8993/215-501	.../215-502
		7 m	891-8993/205-701	.../205-702	891-8993/215-701	.../215-702
<b>Info</b>		<b>Accessories</b>				
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.  For other cables, please contact factory.  ● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N)  For coding information, see pages 224 to 226. Fire load data available upon request.		Locking lever, for "flying leads,"				
		tool operated black <b>890-111</b> 100 (2x50)		white <b>890-131</b> 100 (2x50)		
		Mounting carrier, for 2- to 5-pole "flying leads"				
		black <b>890-310</b> 100		white <b>890-311</b> 100		

Cable Assemblies 3 x 1.5 mm<sup>2</sup>

		PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5  250 V/4 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	891-8993/006-101	.../006-102	891-8993/016-101	.../016-102
		2 m	891-8993/006-201	.../006-202	891-8993/016-201	.../016-202
		3 m	891-8993/006-301	.../006-302	891-8993/016-301	.../016-302
		5 m	891-8993/006-501	.../006-502	891-8993/016-501	.../016-502
		7 m	891-8993/006-701	.../006-702	891-8993/016-701	.../016-702
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	891-8993/106-101	.../106-102	891-8993/116-101	.../116-102
		2 m	891-8993/106-201	.../106-202	891-8993/116-201	.../116-202
		3 m	891-8993/106-301	.../106-302	891-8993/116-301	.../116-302
		5 m	891-8993/106-501	.../106-502	891-8993/116-501	.../116-502
		7 m	891-8993/106-701	.../106-702	891-8993/116-701	.../116-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	891-8993/206-101	.../206-102	891-8993/216-101	.../216-102
		2 m	891-8993/206-201	.../206-202	891-8993/216-201	.../216-202
		3 m	891-8993/206-301	.../206-302	891-8993/216-301	.../216-302
		5 m	891-8993/206-501	.../206-502	891-8993/216-501	.../216-502
		7 m	891-8993/206-701	.../206-702	891-8993/216-701	.../216-702
		<b>Accessories</b>				
		<b>Locking lever, for "flying leads,"</b>				
				tool operated		
				black	890-111	100 (2x50)
				white	890-131	100 (2x50)
		<b>Mounting carrier, for 2- to 5-pole "flying leads"</b>				
				black	890-310	100
				white	890-311	100

## Sockets and Plugs, 4-Pole

<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 16 A</p> <p>AWG 22 – 16</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 16 A</p> <p>AWG 22 – 16</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

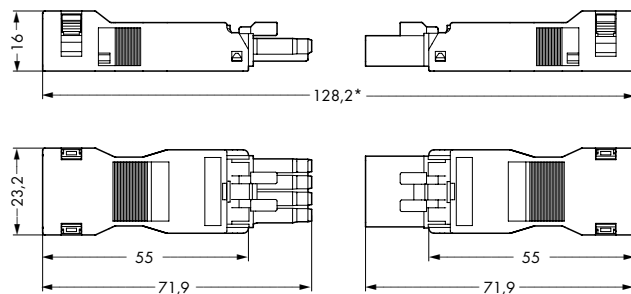


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 6.5 – 10.5 mm cable diameter			Plug with strain relief housing, for 6.5 – 10.5 mm cable diameter		
	● black	890-104	50	● black	890-114	50
	○ white	890-124	50	○ white	890-134	50
<b>Accessories, 890 Series</b>						
	Locking lever, for “flying leads,” tool operated			Locking lever, for “flying leads,” tool operated		
	● black	890-111	100 (2x50)	● black	890-111	100 (2x50)
	○ white	890-131	100 (2x50)	○ white	890-131	100 (2x50)
	Mounting carrier, for 2- to 5-pole “flying leads”			Mounting carrier, for 2- to 5-pole “flying leads”		
	● black	890-310	100	● black	890-310	100
	○ white	890-311	100	○ white	890-311	100
<b>Info</b>	<b>Dimensions</b>					

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> “s + f-st”  
0.25 – 1 mm<sup>2</sup> “stranded”
- ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.

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

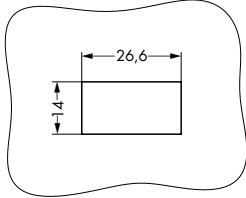
For coding information, see pages 224 to 226.  
Fire load data available upon request.



\* Overall length when mated

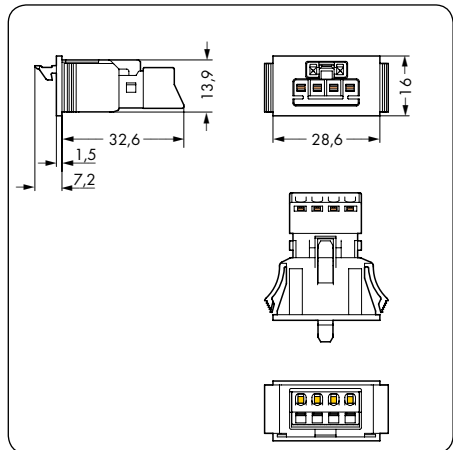
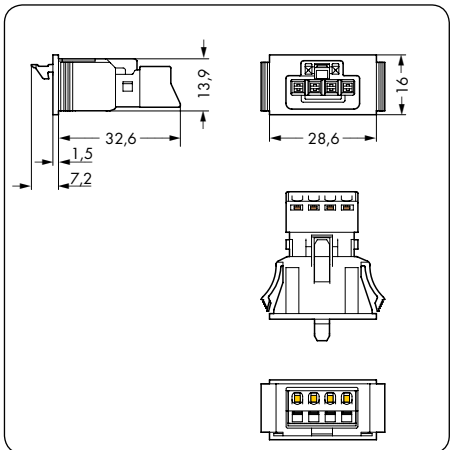


Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ①   AWG 22 – 16 400 V/6 kV/3 I <sub>N</sub> 16 A 3	0.25 – 1.5 mm <sup>2</sup> ①   AWG 22 – 16 400 V/6 kV/3 I <sub>N</sub> 16 A 3
	9 mm / 0.35 in ② Approvals	9 mm / 0.35 in ② Approvals



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 4-pole, with CAGE CLAMP®S connection	Socket			Plug		
	● black	890-704	50	● black	890-714	50
	○ white	890-724	50	○ white	890-734	50
Info	Dimensions					

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
  - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- black    Coding A    (N ⊕ 2|L 1|L)
- white    Coding A    (N ⊕ 2|L 1|L)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.







# Distribution Connectors, 4-Pole

400 V/6 kV/3 $I_N$ 16 A  ② Approvals	400 V/6 kV/3 $I_N$ 16 A  ② Approvals
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>h-distribution connector, unidirectional, plug / socket - socket</b>			<b>T-distribution connector, 1 x plug / 2 x socket</b>		
● black	<b>890-944</b>	50	● black	<b>890-626</b>	50
○ white	<b>890-994</b>	50	○ white	<b>890-676</b>	50
for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
● black	<b>890-945</b>	50	● black	<b>890-627</b>	50
○ white	<b>890-995</b>	50	○ white	<b>890-677</b>	50

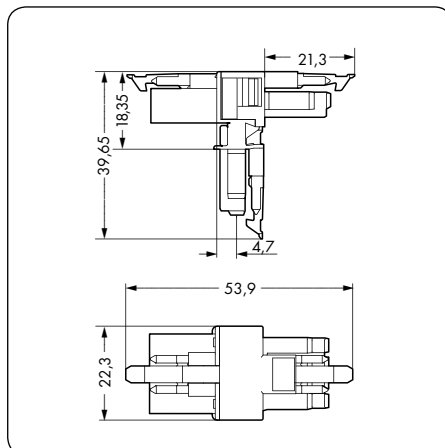
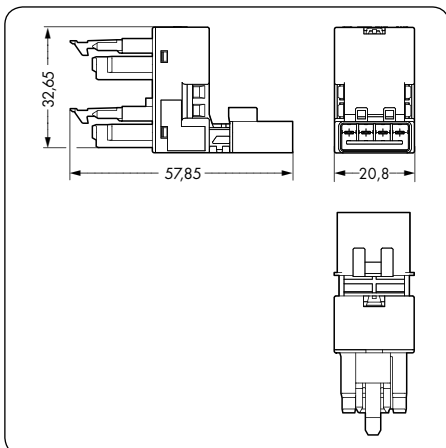
## Item-Specific Accessories


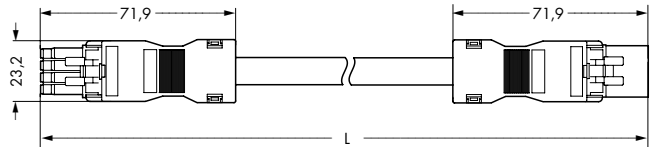

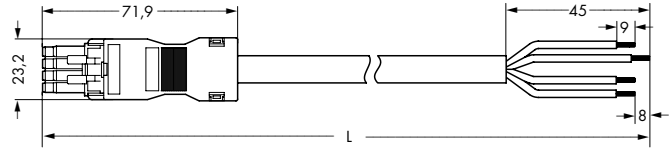

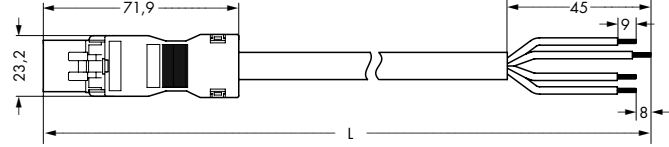


<b>Mounting plate, for distribution connectors</b>					
	black	<b>890-624</b>	50		
	white	<b>890-674</b>	50		
<b>Fixing pin, for mounting plates</b>					
	③ black	<b>890-601</b>	250		

## Accessories, 890 Series

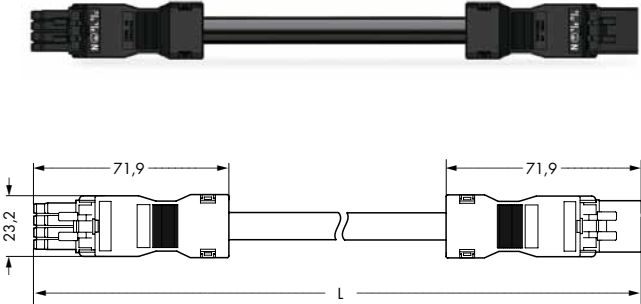
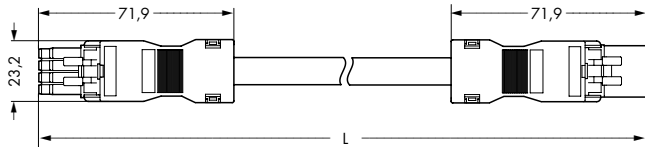
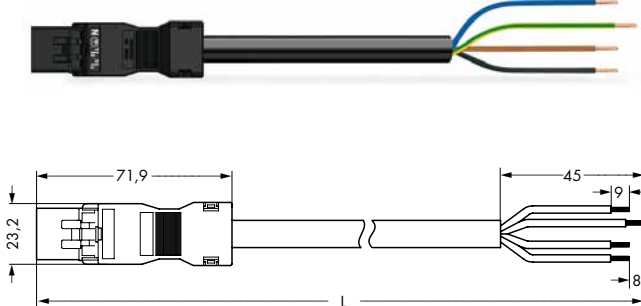
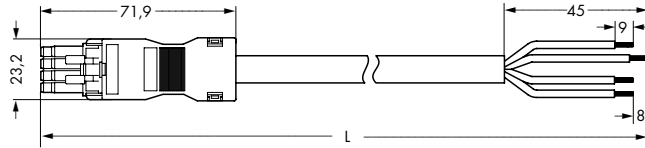

<b>Locking lever, for "flying leads," tool operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black	<b>890-111</b>	100 (2x50)		black <b>890-111</b> 100 (2x50)
	white	<b>890-131</b>	100 (2x50)		white <b>890-131</b> 100 (2x50)

## Dimensions





		PVC H05VV-F 4G1 halogen-free H05Z1Z1-F 4G1  400 V/6 kV/3 I <sub>N</sub> 10 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A PVC halogen-free				
		1 m	891-8994/005-101	.../005-102	891-8994/015-101	.../015-102
		2 m	891-8994/005-201	.../005-202	891-8994/015-201	.../015-202
		3 m	891-8994/005-301	.../005-302	891-8994/015-301	.../015-302
		5 m	891-8994/005-501	.../005-502	891-8994/015-501	.../015-502
		7 m	891-8994/005-701	.../005-702	891-8994/015-701	.../015-702
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A PVC halogen-free				
		1 m	891-8994/105-101	.../105-102	891-8994/115-101	.../115-102
		2 m	891-8994/105-201	.../105-202	891-8994/115-201	.../115-202
		3 m	891-8994/105-301	.../105-302	891-8994/115-301	.../115-302
		5 m	891-8994/105-501	.../105-502	891-8994/115-501	.../115-502
		7 m	891-8994/105-701	.../105-702	891-8994/115-701	.../115-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A PVC halogen-free				
		1 m	891-8994/205-101	.../205-102	891-8994/215-101	.../215-102
		2 m	891-8994/205-201	.../205-202	891-8994/215-201	.../215-202
		3 m	891-8994/205-301	.../205-302	891-8994/215-301	.../215-302
		5 m	891-8994/205-501	.../205-502	891-8994/215-501	.../215-502
		7 m	891-8994/205-701	.../205-702	891-8994/215-701	.../215-702
<b>Info</b>		<b>Accessories</b>				
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.  For other cables, please contact factory.  ● black Coding A (N ⊕ 2L 1L) ○ white Coding A (N ⊕ 2L 1L)  For coding information, see pages 224 to 226. Fire load data available upon request.		Locking lever, for "flying leads," tool operated				
		 black <b>890-111</b> 100 (2x50)				
		white <b>890-131</b> 100 (2x50)				
		Mounting carrier, for 2- to 5-pole "flying leads"				
		 black <b>890-310</b> 100				
		white <b>890-311</b> 100				

# Cable Assemblies 4 x 1.5 mm<sup>2</sup>

	<p>PVC H05VV-F 4G1.5 halogen-free H05Z1Z1-F 4G1.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<p><b>Interconnecting cable, socket – plug</b></p>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. white</th> <th>Item No. black</th> <th>Item No. white</th> </tr> </thead> <tbody> <tr> <td colspan="5">● ○ Coding A</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>891-8994/006-101</td> <td>.../006-102</td> <td>891-8994/016-101</td> <td>.../016-102</td> </tr> <tr> <td>2 m</td> <td>891-8994/006-201</td> <td>.../006-202</td> <td>891-8994/016-201</td> <td>.../016-202</td> </tr> <tr> <td>3 m</td> <td>891-8994/006-301</td> <td>.../006-302</td> <td>891-8994/016-301</td> <td>.../016-302</td> </tr> <tr> <td>5 m</td> <td>891-8994/006-501</td> <td>.../006-502</td> <td>891-8994/016-501</td> <td>.../016-502</td> </tr> <tr> <td>7 m</td> <td>891-8994/006-701</td> <td>.../006-702</td> <td>891-8994/016-701</td> <td>.../016-702</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● ○ Coding A					PVC		halogen-free			1 m	891-8994/006-101	.../006-102	891-8994/016-101	.../016-102	2 m	891-8994/006-201	.../006-202	891-8994/016-201	.../016-202	3 m	891-8994/006-301	.../006-302	891-8994/016-301	.../016-302	5 m	891-8994/006-501	.../006-502	891-8994/016-501	.../016-502	7 m	891-8994/006-701	.../006-702	891-8994/016-701	.../016-702
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## Sockets and Plugs, 5-Pole

<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 13 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 13 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).

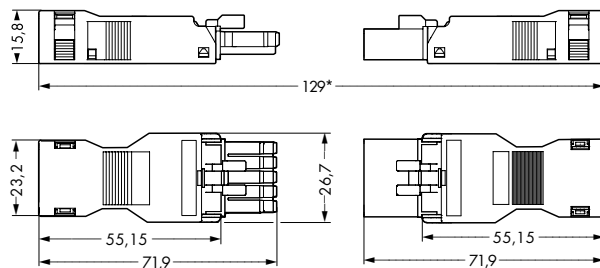


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 5-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 6.5 – 10.5 mm cable diameter			Plug with strain relief housing, for 6.5 – 10.5 mm cable diameter		
	● black	890-105	50	● black	890-115	50
	○ white	890-125	50	○ white	890-135	50
<b>Accessories, 890 Series</b>						
	Locking lever, for "flying leads," tool operated			Locking lever, for "flying leads," tool operated		
	● black	890-111	100 (2x50)	● black	890-111	100 (2x50)
	○ white	890-131	100 (2x50)	○ white	890-131	100 (2x50)
	Mounting carrier, for 2- to 5-pole "flying leads"			Mounting carrier, for 2- to 5-pole "flying leads"		
	● black	890-310	100	● black	890-310	100
	○ white	890-311	100	○ white	890-311	100
<b>Info</b>	<b>Dimensions</b>					



- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ③ Blue plugs and sockets are suitable for 16A DALI applications.

- black Coding A (N ⊕ 1 2 3)
- white Coding A (N ⊕ 1 2 3)
- blue Coding I (N ⊕ L - +)

For coding information, see pages 224 to 226.  
Fire load data available upon request.



\* Overall length when mated

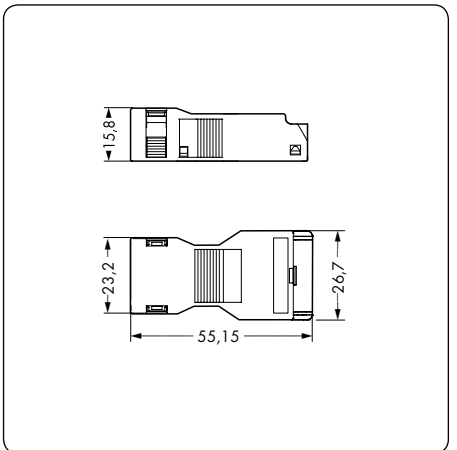
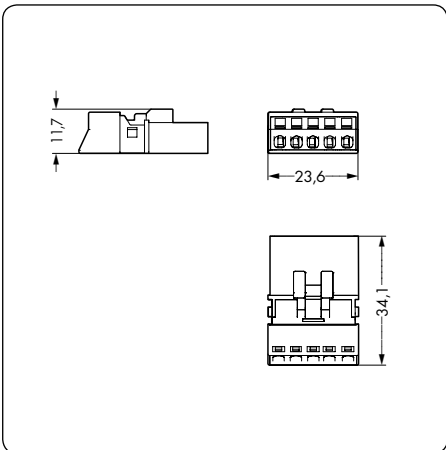
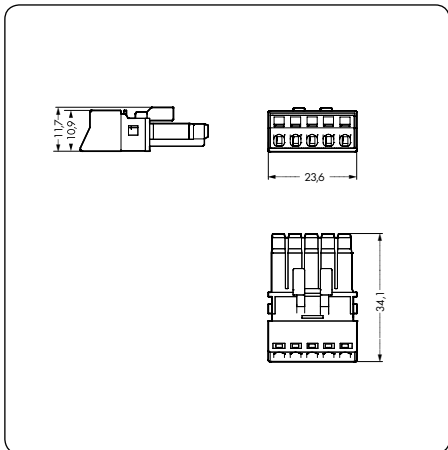
<p>0.25 – 1.5 mm<sup>2</sup> ①   AWG 22 – 16                  400 V/6 kV/3                  I<sub>N</sub> 13 A / 16 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>0.25 – 1.5 mm<sup>2</sup> ①   AWG 22 – 16                  400 V/6 kV/3                  I<sub>N</sub> 13 A / 16 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>Snap-on type strain relief housings for:                  - 3-pole sockets                  - 3-pole plugs</p>
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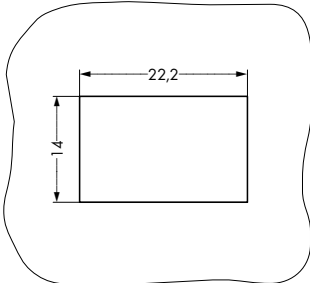
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>			<b>Strain relief housing, for 6.5 – 10.5 mm cable diameter</b>		
● black	890-205	50	● black	890-215	50	black	890-505	50
○ white	890-225	50	○ white	890-235	50	white	890-515	50
● blue	890-1105 ③	50	● blue	890-1115 ③	50			


Accessories, 890 Series								
<b>Locking lever, for "flying leads,"</b> tool operated black 890-111 100 (2x50) white 890-131 100 (2x50)			<b>Locking lever, for "flying leads,"</b> tool operated black 890-111 100 (2x50) white 890-131 100 (2x50)					
<b>Mounting carrier, for 2- to 5-pole</b> "flying leads" black 890-310 100 white 890-311 100			<b>Mounting carrier, for 2- to 5-pole</b> "flying leads" black 890-310 100 white 890-311 100					

**Dimensions**

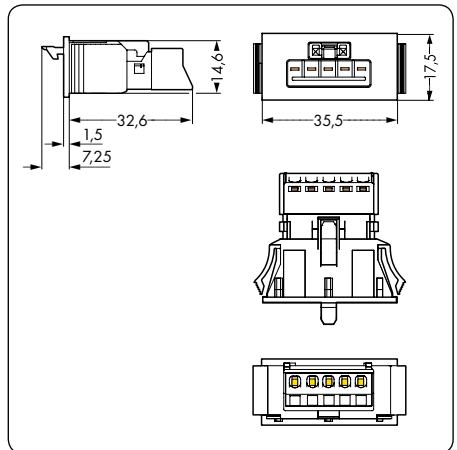
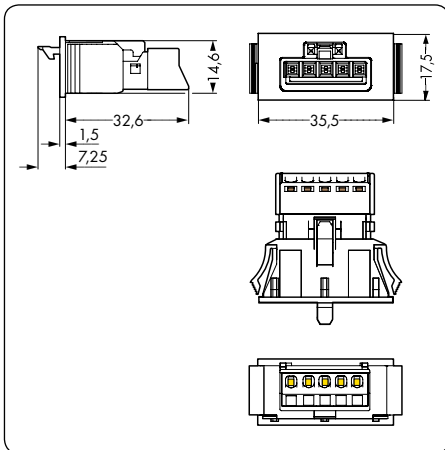


Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ①   AWG 22 – 16 400 V/6 kV/3 I <sub>N</sub> 13 A / 16 A ③	0.25 – 1.5 mm <sup>2</sup> ①   AWG 22 – 16 400 V/6 kV/3 I <sub>N</sub> 13 A / 16 A ③
	9 mm / 0.35 in ② Approvals	9 mm / 0.35 in ② Approvals



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Pluggable connectors, snap-in device connection, 5-pole, with CAGE CLAMP® S connection</b>	<b>Socket</b>			<b>Plug</b>		
	● black	890-705	50	● black	890-715	50
	○ white	890-725	50	○ white	890-735	50
	● blue	890-2105 ④	50	● blue	890-2115 ③	50
	without locking lever, for lighting installation with intermediate coupler			without locking lever, for lighting installation with intermediate coupler		
	● black	890-705/006-000	50	● black	890-715/006-000	50
	○ white	890-725/006-000	50	○ white	890-735/006-000	50
	● blue	890-2105/006-000 ④	50	● blue	890-2115/006-000 ③	50
<b>Accessories, 890 Series</b>						
	<b>Lockout cap, for cutout, 5-pole</b>			<b>Lockout cap, for cutout, 5-pole</b>		
		black 770-643	100		black 770-643	100
		white 770-693	100		white 770-693	100
<b>Info</b>	<b>Dimensions</b>					

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
  - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ Blue plugs and sockets are suitable for 16A DALI applications.
  - ④ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- For other cables, please contact factory.
- black Coding A (N ⊕ 1 2 3)
  - white Coding A (N ⊕ 1 2 3)
  - blue Coding I (N ⊕ L - +)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.





# Intermediate Coupler and Distribution Connectors, 5-Pole

400 V/6 kV/3 $I_N$ 13 A / 16 A ③  ② Approvals	400 V/6 kV/3 $I_N$ 13 A / 16 A ③  ② Approvals	400 V/6 kV/3 $I_N$ 13 A / 16 A ③  ② Approvals
--	--	--





Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Intermediate coupler ,</b> 1 x plug / 1 x socket			<b>h-distribution connector,</b> plug/socket - socket			<b>T-distribution connector,</b> 1 x plug / 2 x socket		
● black	890-605	50	● black	890-929	50	● black	890-621	50
○ white	890-655	50	○ white	890-979	50	○ white	890-671	50
● blue	890-619	50	● blue	890-982	50	● blue	890-617	50
At least one snap-in connector <b>WITHOUT</b> locking lever is required on one side when connecting two lights directly via intermediate coupler (see page 32).			for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
			● black	890-930	50	● black	890-622	50
			○ white	890-980	50	○ white	890-672	50
			● blue	890-983	50	● blue	890-620	50

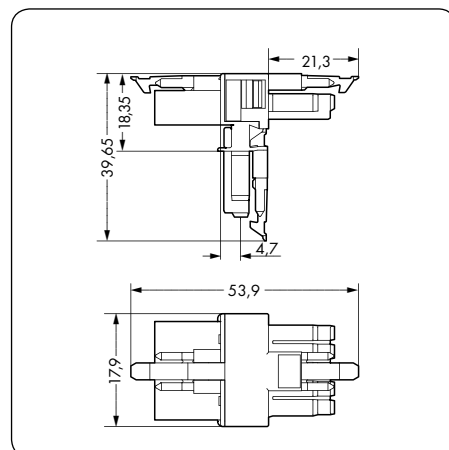
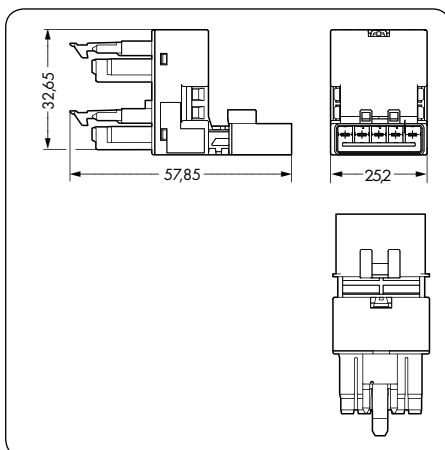
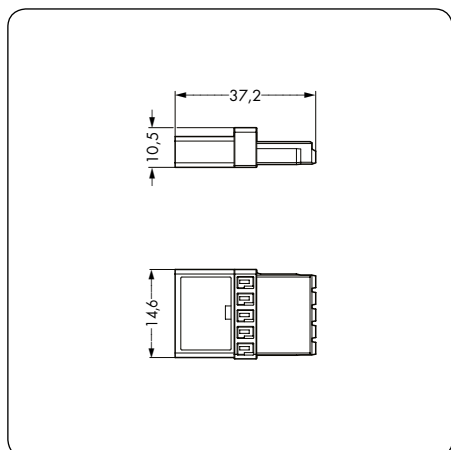
## Item-Specific Accessories


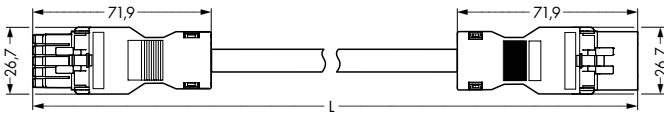

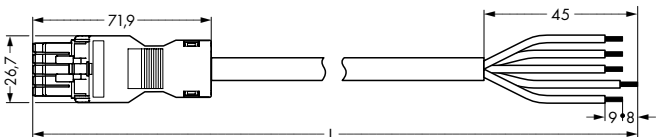

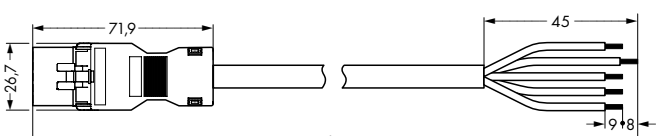


<b>Mounting plate,</b> for distribution connectors		
	black	890-625 50
	white	890-675 50
<b>Fixing pin,</b> for mounting plates		
	④ black	890-601 250

## Accessories, 890 Series

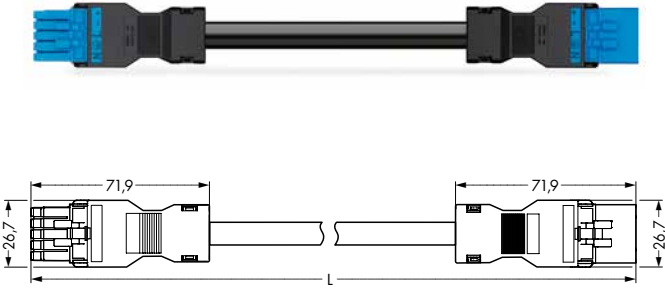
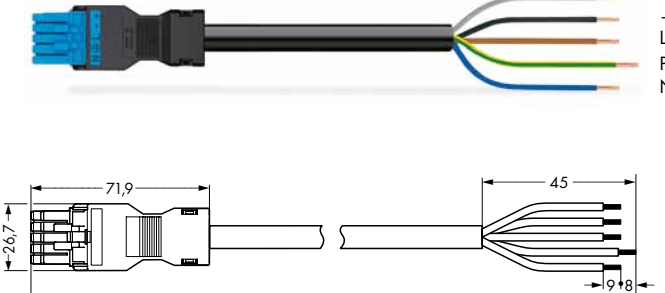
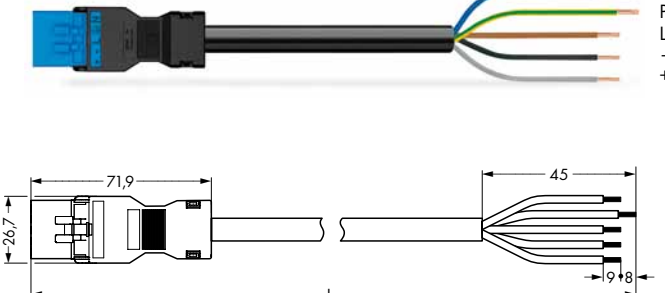


<b>Locking lever,</b> for "flying leads," tool operated			<b>Locking lever,</b> for "flying leads," tool operated		
	black	890-111 100 (2x50)		black	890-111 100 (2x50)
	white	890-131 100 (2x50)		white	890-131 100 (2x50)


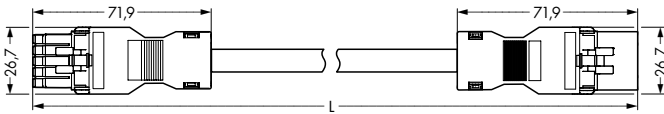

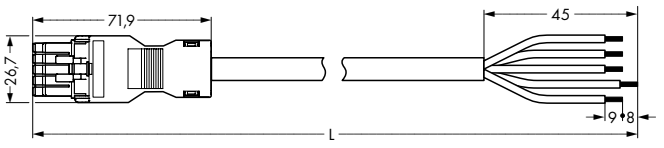

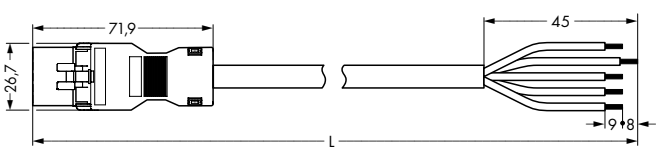


## Dimensions

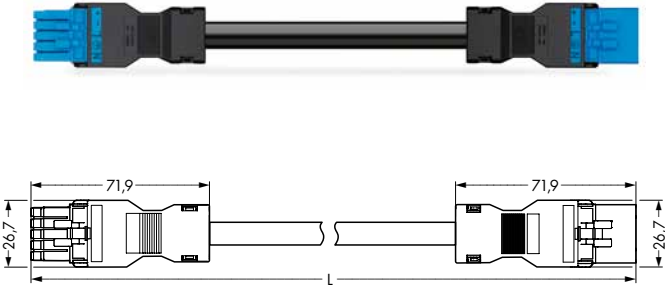
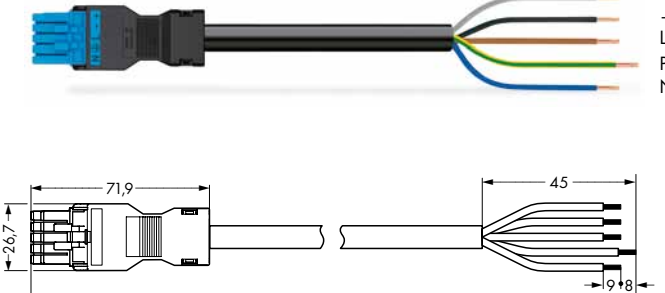
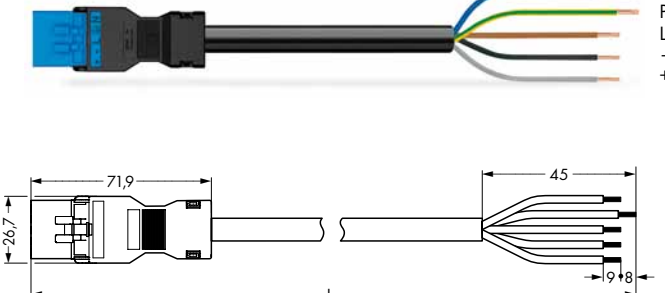




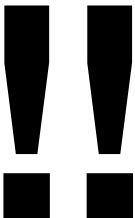
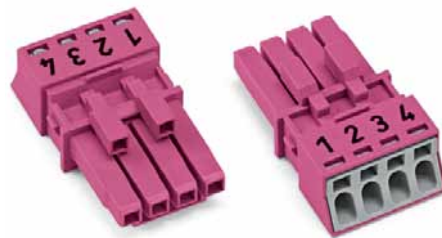
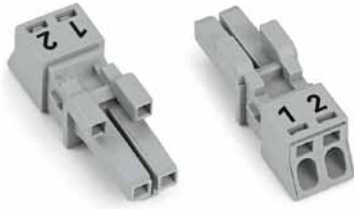
		PVC H05VV-F 5G1 halogen-free H05Z1Z1-F 5G1  400 V/6 kV/3 I <sub>N</sub> 10 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A	PVC halogen-free			
		1 m	891-8995/005-101	.../005-102	891-8995/015-101	.../015-102
		2 m	891-8995/005-201	.../005-202	891-8995/015-201	.../015-202
		3 m	891-8995/005-301	.../005-302	891-8995/015-301	.../015-302
		5 m	891-8995/005-501	.../005-502	891-8995/015-501	.../015-502
		7 m	891-8995/005-701	.../005-702	891-8995/015-701	.../015-702
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A	PVC halogen-free			
		1 m	891-8995/105-101	.../105-102	891-8995/115-101	.../115-102
		2 m	891-8995/105-201	.../105-202	891-8995/115-201	.../115-202
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<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A	PVC halogen-free			
		1 m	891-8995/205-101	.../205-102	891-8995/215-101	.../215-102
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		7 m	891-8995/205-701	.../205-702	891-8995/215-701	.../215-702
<b>Info</b>		<b>Accessories</b>				
① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.  For other cables, please contact factory.  ● black Coding A (N ⊕ 1 2 3) ○ white Coding A (N ⊕ 1 2 3) ● blue Coding I (N ⊕ L – +)  For coding information, see pages 224 to 226. Fire load data available upon request.		Locking lever, for "flying leads,"  tool operated black 890-111 100 (2x50) white 890-131 100 (2x50)				
		Mounting carrier, for 2- to 5-pole "flying leads"  black 890-310 100 white 890-311 100				



	<p>PVC H05VV-F 5G1 halogen-free H05Z1Z1-F 5G1</p> <p>400 V/6 kV/3 I<sub>N</sub> 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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		PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5  400 V/6 kV/3 I <sub>N</sub> 13 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A PVC	halogen-free			
		1 m	891-8995/006-101	.../006-102	891-8995/016-101	.../016-102
		2 m	891-8995/006-201	.../006-202	891-8995/016-201	.../016-202
		3 m	891-8995/006-301	.../006-302	891-8995/016-301	.../016-302
		5 m	891-8995/006-501	.../006-502	891-8995/016-501	.../016-502
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		1 m	891-8995/106-101	.../106-102	891-8995/116-101	.../116-102
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 		● ○ Coding A PVC	halogen-free			
		1 m	891-8995/206-101	.../206-102	891-8995/216-101	.../216-102
		2 m	891-8995/206-201	.../206-202	891-8995/216-201	.../216-202
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① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications. ② Blue plugs and sockets are suitable for 16A DALI applications. For other cables, please contact factory.  ● black Coding A (N ⊕ 1 2 3) ○ white Coding A (N ⊕ 1 2 3) ● blue Coding I (N ⊕ L – +)  For coding information, see pages 224 to 226. Fire load data available upon request.		Locking lever, for "flying leads,"  tool operated black 890-111 100 (2x50) white 890-131 100 (2x50)				
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	<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A ②</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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**Important note:**

B-Coded components of the *WINSTA*<sup>®</sup> MINI special series are designed for specialty applications (e.g., measurement, control and regulation technology) and certified according to DIN EN 61984. In addition to the gray models for 110–400V voltages, there is now also a variant in light green for low voltages up to 48V, as well as a pink one for bus applications.

Each of the three versions is available in 2-, 3- and 4-pole configurations. Pole marking can be printed at the factory to suit customer requirements. According to IEC 61535, B-Coded products are protected against mismatching with all other coding types found in the *WINSTA*<sup>®</sup> system. Within B Coding, all special variants can mate with each other. The variable coding system provides clear circuit identification. Special variants can be clearly differentiated according to color and pole marking. They can be coded on-site or delivered with factory-installed custom coding.

# WINSTA® MINI special 890/891 Series

up to 1.5 mm<sup>2</sup> / 16 A

# 2

# 2

- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with other systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards does not guarantee hazard-preventing, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.



**890 Series**

**Pluggable Connectors, 2-Pole**

41

**Pluggable Connectors, 3-Pole**

46

**Pluggable Connectors, 4-Pole**

52



**890 Series**

**Snap-In Device Connectors, 2-Pole**

42

**Snap-In Device Connectors, 3-Pole**

47

**Snap-In Device Connectors, 4-Pole**

53



**890 Series**

**Distribution Connectors, 2-Pole**

43

**Distribution Connectors, 3-Pole**

48



**891 Series**

**Cable Assemblies, 2-Pole**

44 - 45

**Cable Assemblies, 3-Pole**

50 - 51

**Cable Assemblies, 4-Pole**

54 - 55

# 2 Handling WINSTA® MINI special, 890 Series

40

## Pole marking



Gray, B-coded connector with "2 1" marking; e.g., control signal (A circuit).

## Circuit identification



Easy circuit identification via different marking and colors.

## Protection against mismatching



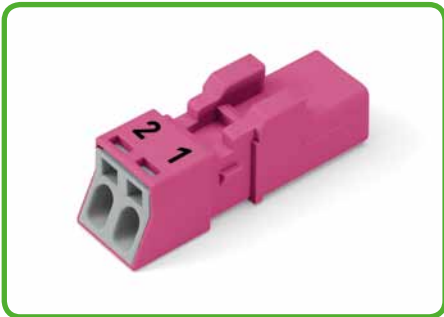
B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

## Pole marking

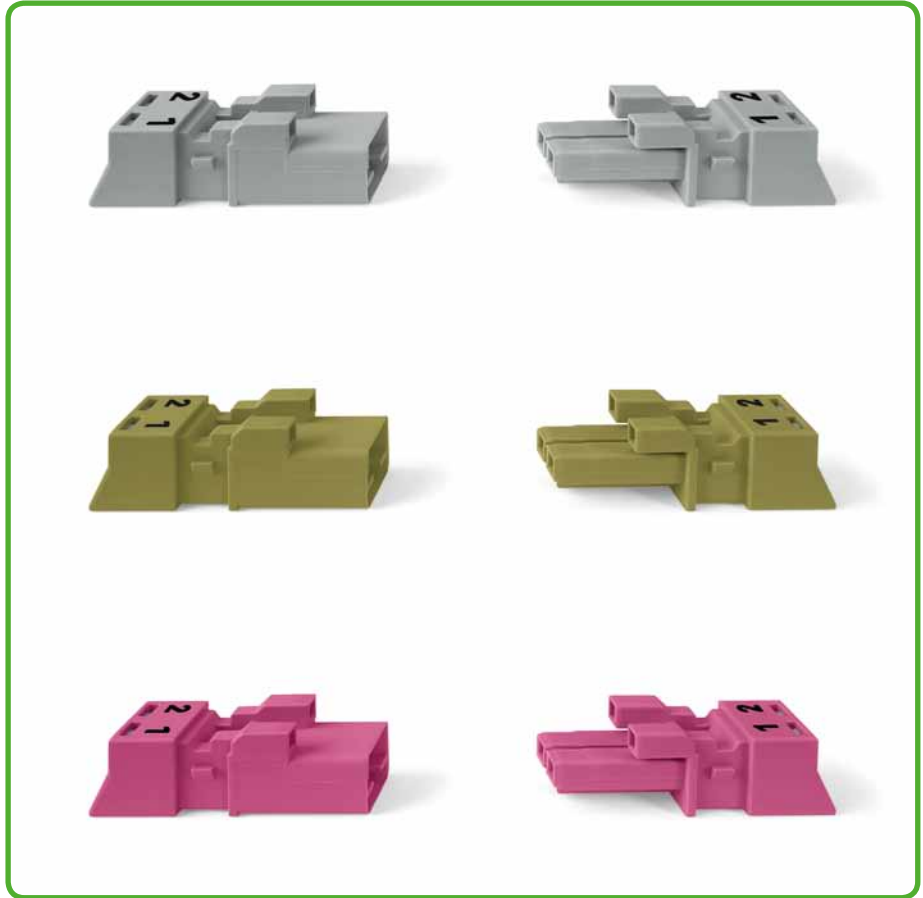


Light green, B-coded connector with "- +" marking; e.g., DC power supply (24V circuit).

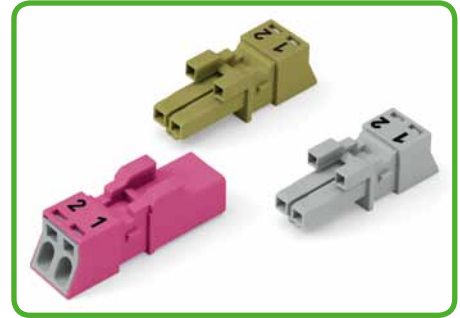
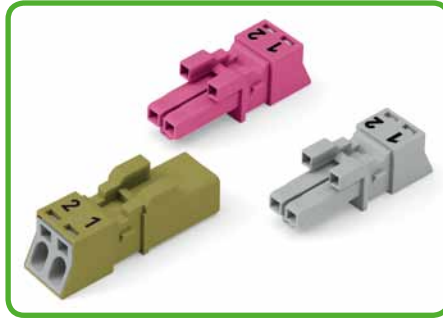
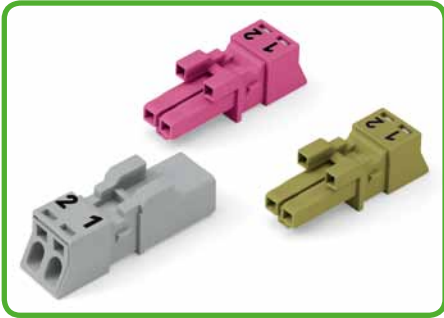
## Pole marking



Pink, B-coded connector with "2 1" marking; e.g., control signal (B circuit).



## Plug compatibility



B-coded connectors with different colors can be plugged together.

### Important note:

Different colors and/or pole marking are used for circuit identification.



Only connectors of the same color and same pole marking must be plugged together.

# WINSTA® MINI special Sockets and Plugs, 2-Pole

CAGE CLAMP® S

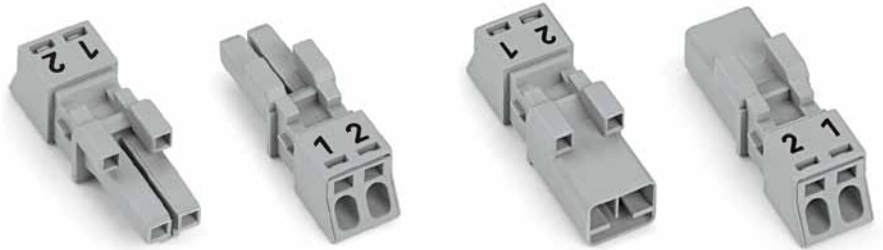
2

41

<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
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**Note:**



All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).







2

Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 2-pole, with CAGE CLAMP® S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	890-242	50	gray	890-252	50
	gray	890-242/060-000*	50	gray	890-252/060-000*	50
	light green	890-262	50	light green	890-272	50
	pink	890-282	50	pink	890-292	50
	pink	890-282/080-000*	50	pink	890-292/080-000*	50
	pink	890-282/082-000*	50	pink	890-292/082-000*	50
	* Pole marking, see page 227.			* Pole marking, see page 227.		

**Item-Specific Accessories**

	<p><b>Strain relief housing,</b></p> <p> for 3.8 – 8.2 mm cable diameter</p> <p>black <b>890-502</b> 50</p> <p>white <b>890-512</b> 50</p>	<p><b>Strain relief housing,</b></p> <p> for 3.8 – 8.2 mm cable diameter</p> <p>black <b>890-502</b> 50</p> <p>white <b>890-512</b> 50</p>
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**Accessories, 890 Series**

	<p><b>Locking lever, for "flying leads,"</b></p> <p> tool operated</p> <p>black <b>890-111</b> 100 (2x50)</p> <p>white <b>890-131</b> 100 (2x50)</p>	<p><b>Locking lever, for "flying leads,"</b></p> <p> tool operated</p> <p>black <b>890-111</b> 100 (2x50)</p> <p>white <b>890-131</b> 100 (2x50)</p>
	<p><b>Mounting carrier, for 2- to 5-pole</b></p> <p> "flying leads"</p> <p>black <b>890-310</b> 100</p> <p>white <b>890-311</b> 100</p>	<p><b>Mounting carrier, for 2- to 5-pole</b></p> <p> "flying leads"</p> <p>black <b>890-310</b> 100</p> <p>white <b>890-311</b> 100</p>

**Dimensions**

① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"

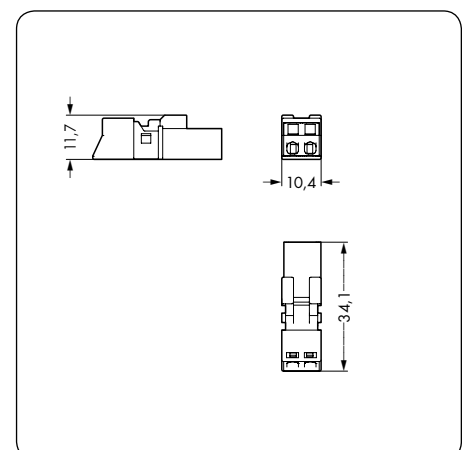
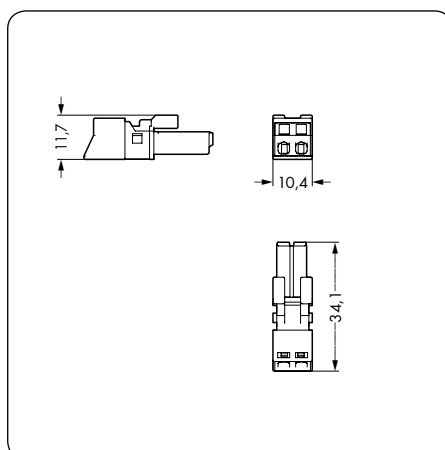
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

**Standard printing (without suffix number)**

- gray Coding B (1 2)
- light green Coding B (1 2)
- pink Coding B (1 2)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.



WINSTA® – Perfectly plugged!





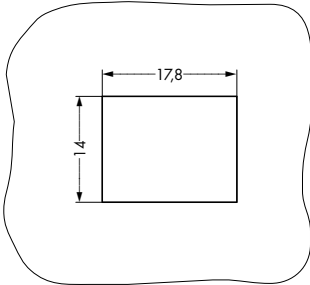
# 2 WINSTA® MINI special





## Snap-In Sockets and Plugs, 2-Pole

CAGE CLAMP® S

42

Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A	AWG 22 – 16
	 9 mm / 0.35 in ② Approvals			 9 mm / 0.35 in ② Approvals

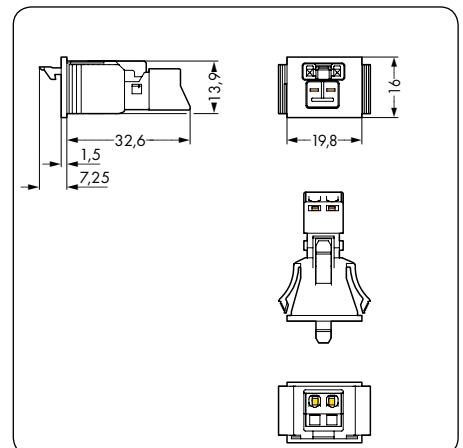
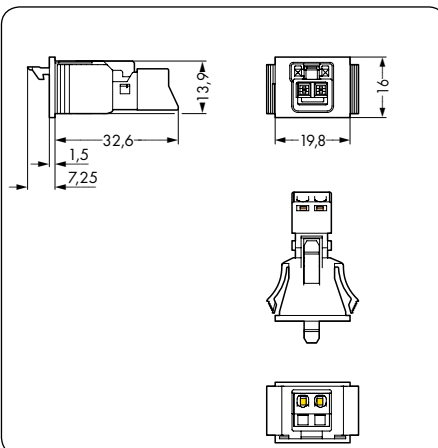


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 2-pole, with CAGE CLAMP® S connection	Socket			Plug		
	● gray	890-742	50	● gray	890-752	50
	● gray	890-742/060-000*	50	● gray	890-752/060-000*	50
	● light green	890-762	50	● light green	890-772	50
	● pink	890-782	50	● pink	890-792	50
	● pink	890-782/080-000*	50	● pink	890-792/080-000*	50
	● pink	890-782/082-000*	50	● pink	890-792/082-000*	50
	* Pole marking, see page 227.			* Pole marking, see page 227.		
<b>Item-Specific Accessories</b>						
	Operating tool, insulated 2-pole  890-392 1			Operating tool, insulated 2-pole  890-392 1		
<b>Accessories, 890 Series</b>						
	Lockout cap, for cutout, 2-pole  black 890-642 100 white 890-692 100			Lockout cap, for cutout, 2-pole  black 890-642 100 white 890-692 100		
<b>Info</b>	<b>Dimensions</b>					

- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> "s + f-st"  
0.25 – 1 mm<sup>2</sup> "stranded"
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ③ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness

- Standard printing (without suffix number)
- gray Coding B (1 2)
  - light green Coding B (1 2)
  - pink Coding B (1 2)
- For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.




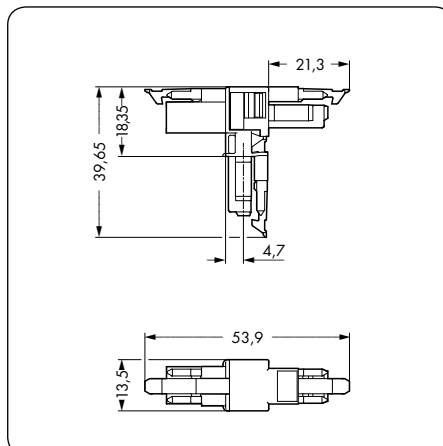


# Distribution Connectors, 2-Pole

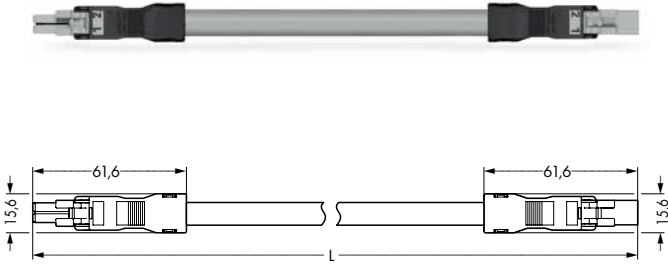
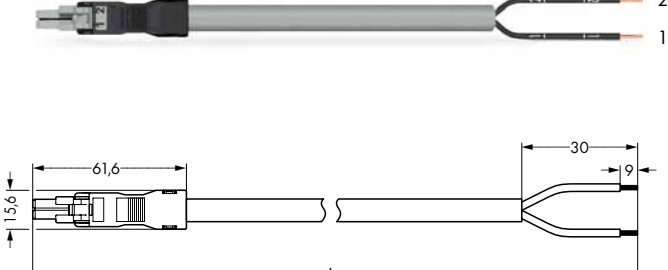
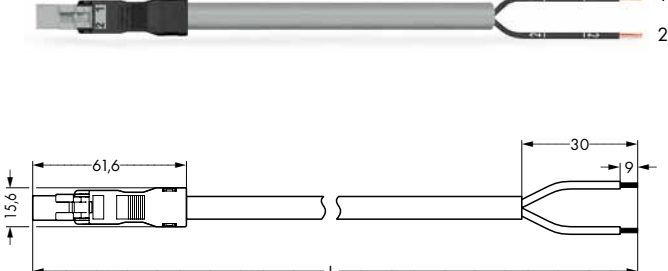






	250 V/4 kV/3 $I_N$ 16 A  2 Approvals	<i>Available April 2013</i>
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Description	Color	Item No.	Pack. Unit
T-distribution connectors, 2-pole, pluggable	T-distribution connector, 1 x plug / 2 x socket		
	gray	890-1601	25
	light green	890-1602	25
	pink	890-1603	25
	for "flying leads," with 3rd locking lever		
	gray	890-1701	25
	light green	890-1702	25
	pink	890-1703	25
	For additional pole marking, see page 227.		
<b>Accessories, 890 Series</b>			
	<b>Locking lever, for "flying leads," tool operated</b> 		
	black	890-111	100 (2x50)
	white	890-131	100 (2x50)
	<b>Dimensions</b>		



# WINSTA® MINI special Cable Assemblies, 2 x 1 mm<sup>2</sup>

	<p>PVC Control line: 2 x 1, gray</p> <p>250 V/4 kV/3 I<sub>N</sub> 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																
<p><b>Interconnecting cable, socket – plug</b></p>	<p>Color Length Item No. black</p>																																
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<p><b>Connecting cable, plug – free end</b></p>	<p>Color Length Item No. black</p>																																
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<p><b>Info</b></p>	<p><b>Accessories</b></p>																																
<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>For other cables, please contact factory.</p> <table border="1"> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2)</td></tr> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2)	●	light green	Coding B	(1 2)	●	pink	Coding B	(1 2)	<p><b>Locking lever, for "flying leads,"</b></p> <table border="1"> <tr><td></td><td>tool operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>890-111</td><td>100 (2x50)</td></tr> <tr><td></td><td>white</td><td>890-131</td><td>100 (2x50)</td></tr> </table> <p><b>Mounting carrier, for 2- to 5-pole "flying leads"</b></p> <table border="1"> <tr><td></td><td>black</td><td>890-310</td><td>100</td></tr> <tr><td></td><td>white</td><td>890-311</td><td>100</td></tr> </table>		tool operated				black	890-111	100 (2x50)		white	890-131	100 (2x50)		black	890-310	100		white	890-311	100
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# Cable Assemblies, 2 x 1.5 mm<sup>2</sup>

	<p>PVC Control line: 2 x 1.5, gray</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																											
<b>Interconnecting cable, socket – plug</b>	<p>Color Length Item No. black black</p> <p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>891-8992/006-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/006-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/006-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/006-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/006-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/006-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/006-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/006-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/006-507</td></tr> </table>	●	1 m	891-8992/006-103	●	3 m	891-8992/006-303	●	5 m	891-8992/006-503	●	1 m	891-8992/006-105	●	3 m	891-8992/006-305	●	5 m	891-8992/006-505	●	1 m	891-8992/006-107	●	3 m	891-8992/006-307	●	5 m	891-8992/006-507
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### Item numbers overview for other cable lengths



Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	891	-	8	9	9	2	/	0	0	6	-	1	0	3
light green	891	-	8	9	9	2	/	0	0	6	-	1	0	5
pink	891	-	8	9	9	2	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 2-pole, socket – plug, PVC control line, 2 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 891-8992/016-107  
The 10th position defines the cable cross-section. For example, a 2 x 1 mm<sup>2</sup> cable with light green connectors has the following item number: 891-8992/005-105  
The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 891-8992/006-503

# 2 WINSTA® MINI special Sockets and Plugs, 3-Pole

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<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A 3</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 16 A 3</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).



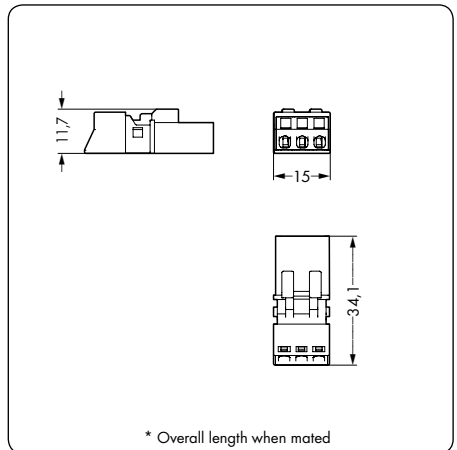
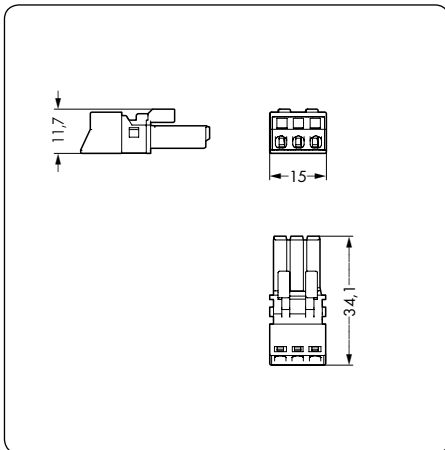
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	890-243	50	gray	890-253	50
	gray	890-243/060-000*	50	gray	890-253/060-000*	50
	gray	890-243/062-000*	50	gray	890-253/062-000*	50
	light green	890-263	50	light green	890-273	50
	light green	890-263/071-000*	50	light green	890-273/071-000*	50
	light green	890-263/073-000*	50	light green	890-273/073 000*	50
	pink	890-283	50	pink	890-293	50
	pink	890-283/081-000*	50	pink	890-293/081-000*	50
	pink	890-283/082-000*	50	pink	890-293/082-000*	50
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories							
			<p>Strain relief housing, for 4.5 – 10 mm cable diameter</p> <p> black 890-503 50</p> <p>white 890-513 50</p>				<p>Strain relief housing, for 4.5 – 10 mm cable diameter</p> <p> black 890-503 50</p> <p>white 890-513 50</p>



Accessories, 890 Series							
			<p>Locking lever, for “flying leads,” tool operated</p> <p> black 890-111 100 (2x50)</p> <p>white 890-131 100 (2x50)</p>				<p>Locking lever, for “flying leads,” tool operated</p> <p> black 890-111 100 (2x50)</p> <p>white 890-131 100 (2x50)</p>
			<p>Mounting carrier, for 2- to 5-pole “flying leads”</p> <p> black 890-310 100</p> <p>white 890-311 100</p>				<p>Mounting carrier, for 2- to 5-pole “flying leads”</p> <p> black 890-310 100</p> <p>white 890-311 100</p>

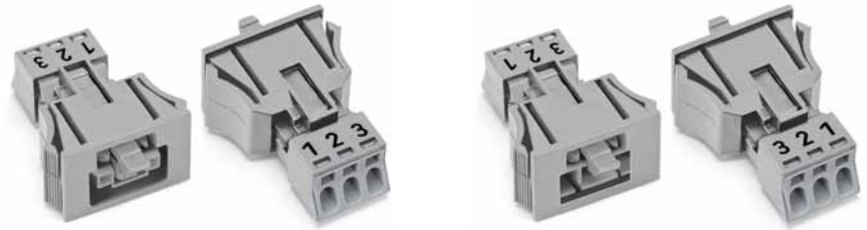
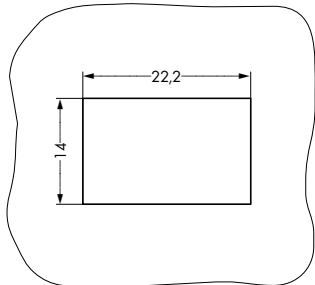
Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> “s + f-st”  
0.25 – 1 mm<sup>2</sup> “stranded”
  - ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.
  - ③ Full rated current can only be applied to a maximum of 2 poles!  
For 3-pole load I<sub>N</sub> = 13 A!
- Standard printing (without suffix number)
- gray Coding B (1 2 3)
  - light green Coding B (1 2 3)
  - pink Coding B (1 2 3)
- For additional pole marking, see page 227.
- For coding information, see pages 224 to 226.  
Fire load data available upon request.







# Snap-In Sockets and Plugs, 3-Pole

Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A 3	AWG 22 – 16	0.25 – 1.5 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 16 A 3	AWG 22 – 16
	 9 mm / 0.35 in ② Approvals		 9 mm / 0.35 in ② Approvals	

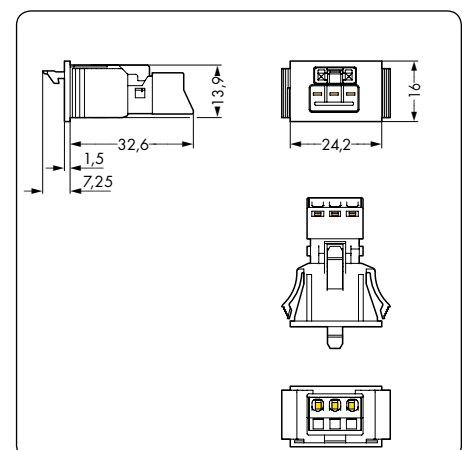
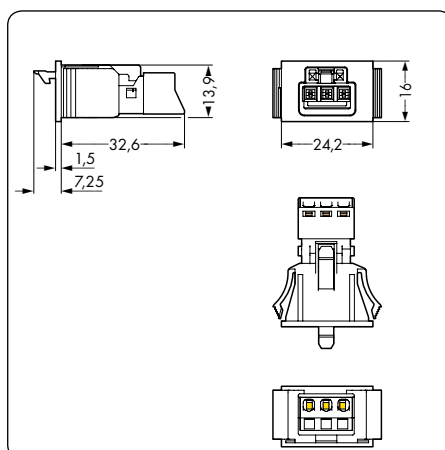


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP® S connection	Socket			Plug		
	gray	890-743	50	gray	890-753	50
	gray	890-743/060-000*	50	gray	890-753/060-000*	50
	gray	890-743/062-000*	50	gray	890-753/062-000*	50
	light green	890-763	50	light green	890-773	50
	light green	890-763/071-000*	50	light green	890-773/071-000*	50
	light green	890-763/073-000*	50	light green	890-773/073 000*	50
	pink	890-783	50	pink	890-793	50
	pink	890-783/081-000*	50	pink	890-793/081-000*	50
	pink	890-783/082-000*	50	pink	890-793/082-000*	50
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories	
Operating tool, insulated 3-pole 	Operating tool, insulated 3-pole 
890-393 1	890-393 1

Accessories, 890 Series	
Lockout cap, for cutout, 3-pole 	Lockout cap, for cutout, 3-pole 
black 890-643 100 white 890-693 100	black 890-643 100 white 890-693 100

## Dimensions






250 V/4 kV/3  
I<sub>N</sub> 16 A ②

*Available  
March 2013*

① Approvals



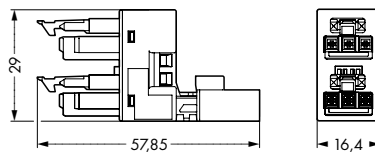
Description	Color	Item No.	Pack. Unit
<b>h-distribution connectors, 3-pole</b>	<b>h-distribution connector, unidirectional, plug / socket - socket</b>		
	● gray	<b>890-1661</b>	50
	● light green	<b>890-1662</b>	50
	● pink	<b>890-1663</b>	50
	for "flying leads," with 3rd locking lever		
	● gray	<b>890-1761</b>	50
	● light green	<b>890-1762</b>	50
	● pink	<b>890-1763</b>	50
	<b>For additional pole marking, see page 227.</b>		
<b>Item-Specific Accessories</b>			
	<b>Mounting plate, for distribution connectors</b>		
		black <b>890-623</b>	100
		white <b>890-673</b>	100
	<b>Fixing pin, for mounting plates</b>		
		③ black <b>890-601</b>	250
<b>Accessories, 890 Series</b>			
	<b>Locking lever, for "flying leads," tool operated</b>		
		black <b>890-111</b>	100 (2x50)
		white <b>890-131</b>	100 (2x50)
<b>Info</b>	<b>Dimensions</b>		

- ① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ② Full rated current can only be applied to a maximum of 2 poles!  
For 3-pole load I<sub>N</sub> = 13 A!
- ③ 5.0 mm Ø, 0.2 - 1.2 mm plate thickness

- gray Coding B (1 2 3)
- light green Coding B (1 2 3)
- pink Coding B (1 2 3)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.



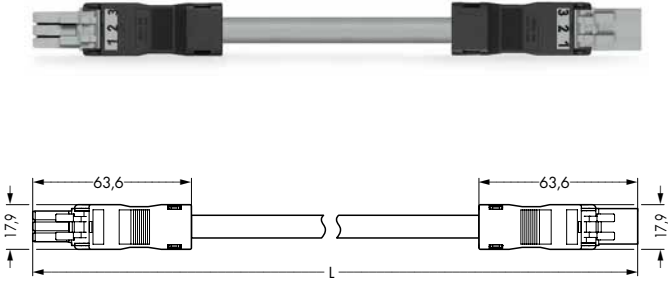
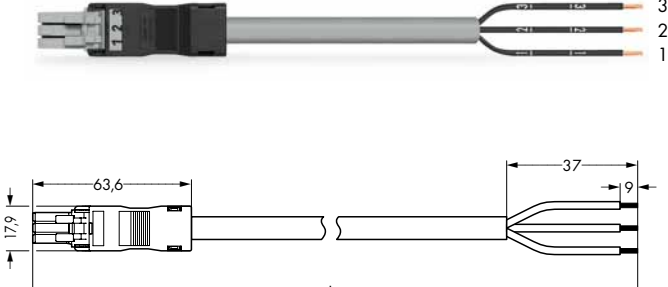
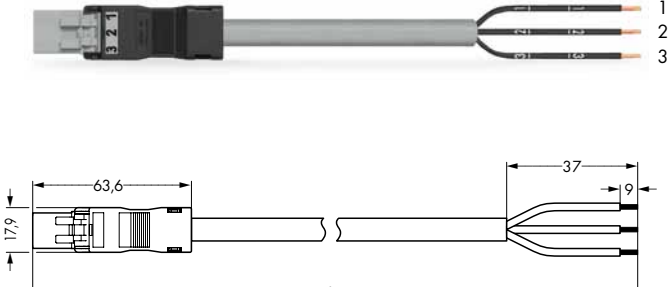








**WINSTA®** – Perfectly plugged!

# 2 WINSTA® MINI special


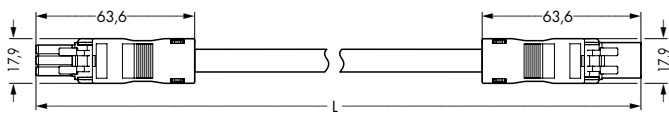

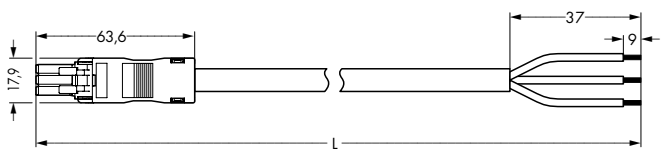

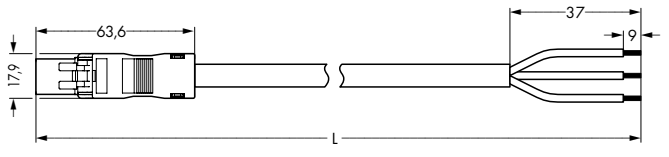
## Cable Assemblies, 3 x 1 mm<sup>2</sup>

50

	<p>PVC Control line: 3 x 1, gray</p> <p>250 V/4 kV/3 I<sub>N</sub> 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																
<p>Interconnecting cable, socket – plug</p>	<p>Color Length Item No. black</p>																																
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<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>② Full rated current can only be applied to a maximum of 2 poles! For 3-pole load I<sub>N</sub> = 13 A! For other cables, please contact factory.</p> <table border="1"> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2 3)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2 3)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2 3)</td></tr> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2 3)	●	light green	Coding B	(1 2 3)	●	pink	Coding B	(1 2 3)	<p>Locking lever, for "flying leads,"</p> <table border="1"> <tr><td></td><td>tool operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>890-111</td><td>100 (2x50)</td></tr> <tr><td></td><td>white</td><td>890-131</td><td>100 (2x50)</td></tr> </table> <p>Mounting carrier, for 2- to 5-pole "flying leads"</p> <table border="1"> <tr><td></td><td>black</td><td>890-310</td><td>100</td></tr> <tr><td></td><td>white</td><td>890-311</td><td>100</td></tr> </table>		tool operated				black	890-111	100 (2x50)		white	890-131	100 (2x50)		black	890-310	100		white	890-311	100
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	black	890-310	100																														
	white	890-311	100																														



# Cable Assemblies, 3 x 1.5 mm<sup>2</sup>

		PVC	Control line: 3 x 1.5, gray	
		250 V/4 kV/3 I <sub>N</sub> 16 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
<b>Interconnecting cable, socket – plug</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8993/006-103
		●	3 m	891-8993/006-303
		●	5 m	891-8993/006-503
		●	1 m	891-8993/006-105
		●	3 m	891-8993/006-305
		●	5 m	891-8993/006-505
		●	1 m	891-8993/006-107
		●	3 m	891-8993/006-307
		●	5 m	891-8993/006-507
<b>Connecting cable, socket – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8993/106-103
		●	3 m	891-8993/106-303
		●	5 m	891-8993/106-503
		●	1 m	891-8993/106-105
		●	3 m	891-8993/106-305
		●	5 m	891-8993/106-505
		●	1 m	891-8993/106-107
		●	3 m	891-8993/106-307
		●	5 m	891-8993/106-507
<b>Connecting cable, plug – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8993/206-103
		●	3 m	891-8993/206-303
		●	5 m	891-8993/206-503
		●	1 m	891-8993/206-105
		●	3 m	891-8993/206-305
		●	5 m	891-8993/206-505
		●	1 m	891-8993/206-107
		●	3 m	891-8993/206-307
		●	5 m	891-8993/206-507

### Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	891	-	8	9	9	3	/	0	0	6	-	1	0	3
light green	891	-	8	9	9	3	/	0	0	6	-	1	0	5
pink	891	-	8	9	9	3	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 3-pole, socket – plug, PVC control line, 3 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 891-8993/016-107  
The 10th position defines the cable cross-section. For example, a 3 x 1 mm<sup>2</sup> cable with light green connectors has the following item number: 891-8993/005-105  
The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 891-8993/006-503

# 2 WINSTA® MINI special Sockets and Plugs, 4-Pole

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<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 16 A ③</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm<sup>2</sup> ① 400 V/6 kV/3 I<sub>N</sub> 16 A ③</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).



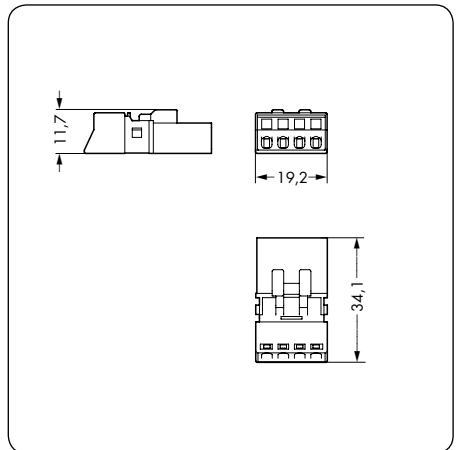
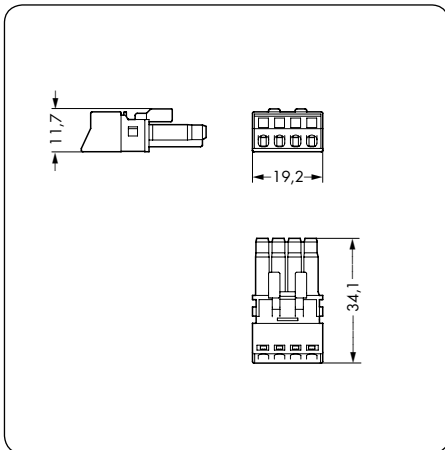
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	890-244	50	gray	890-254	50
	gray	890-244/060-000*	50	gray	890-254/060-000*	50
	gray	890-244/062-000*	50	gray	890-254/062-000*	50
	gray	890-244/064-000*	50	gray	890-254/064-000*	50
	light green	890-264	50	light green	890-274	50
	light green	890-264/071-000*	50	light green	890-274/071-000*	50
	light green	890-264/072-000*	50	light green	890-274/072-000*	50
	light green	890-264/073-000*	50	light green	890-274/073-000*	50
	pink	890-284	50	pink	890-294	50
pink	890-284/081-000*	50	pink	890-294/081-000*	50	
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories						
			<p>Strain relief housing, for 6.5 – 10.5 mm cable diameter</p> <p>black 890-504 50</p> <p>white 890-514 50</p>			
			<p>Strain relief housing, for 6.5 – 10.5 mm cable diameter</p> <p>black 890-504 50</p> <p>white 890-514 50</p>			



Accessories, 890 Series						
			<p>Locking lever, for “flying leads,” tool operated</p> <p>black 890-111 100 (2x50)</p> <p>white 890-131 100 (2x50)</p>			
			<p>Locking lever, for “flying leads,” tool operated</p> <p>black 890-111 100 (2x50)</p> <p>white 890-131 100 (2x50)</p>			
			<p>Mounting carrier, for 2- to 5-pole “flying leads”</p> <p>black 890-310 100</p> <p>white 890-311 100</p>			
			<p>Mounting carrier, for 2- to 5-pole “flying leads”</p> <p>black 890-310 100</p> <p>white 890-311 100</p>			

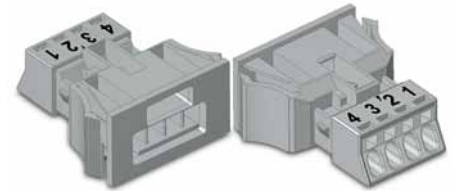
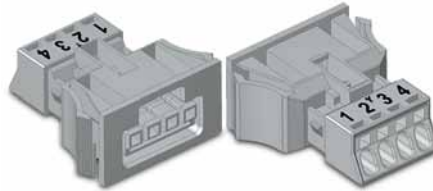
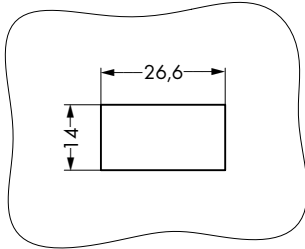
Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm<sup>2</sup> “s + f-st”  
0.25 – 1 mm<sup>2</sup> “stranded”
  - ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.
  - ③ Full rated current can only be applied to a maximum of 2 poles!  
I<sub>N</sub> = 10 A for 3- and 4-pole load!
- Standard printing (without suffix number)
- gray Coding B (1 2 3 4)
  - light green Coding B (1 2 3 4)
  - pink Coding B (1 2 3 4)
- For additional pole marking, see page 227.
- For coding information, see pages 224 to 226.  
Fire load data available upon request.



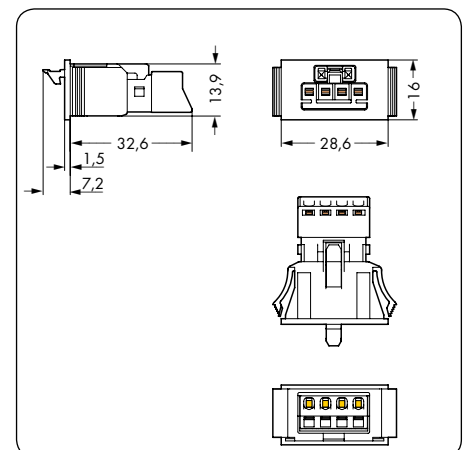
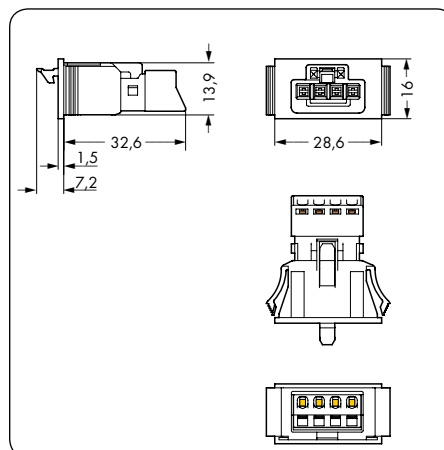
# Snap-In Sockets and Plugs, 4-Pole

Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 16 A ③	AWG 22 – 16	0.25 – 1.5 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 16 A ③	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
Pluggable connectors, snap-in device connection, 4-pole, with CAGE CLAMP® S connection	Socket			Plug		
	● gray	890-744	50	● gray	890-754	50
	● gray	890-744/060-000*	50	● gray	890-754/060-000*	50
	● gray	890-744/062-000*	50	● gray	890-754/062-000*	50
	● gray	890-744/064-000*	50	● gray	890-754/064-000*	50
	● light green	890-764	50	● light green	890-774	50
	● light green	890-764/071-000*	50	● light green	890-774/071-000*	50
	● light green	890-764/072-000*	50	● light green	890-774/072-000*	50
	● light green	890-764/073-000*	50	● light green	890-774/073-000*	50
	● pink	890-784	50	● pink	890-794	50
	● pink	890-784/081-000*	50	● pink	890-794/081-000*	50
		* Pole marking, see page 227.			* Pole marking, see page 227.	

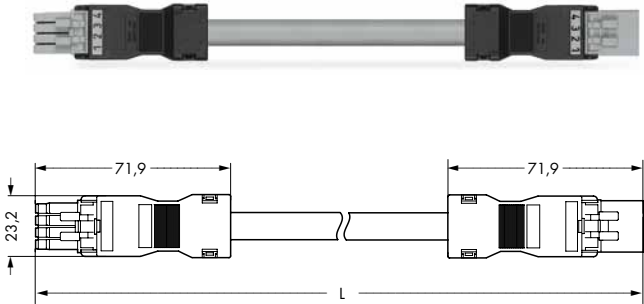
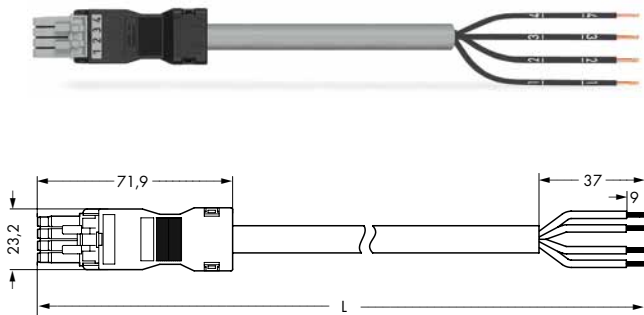
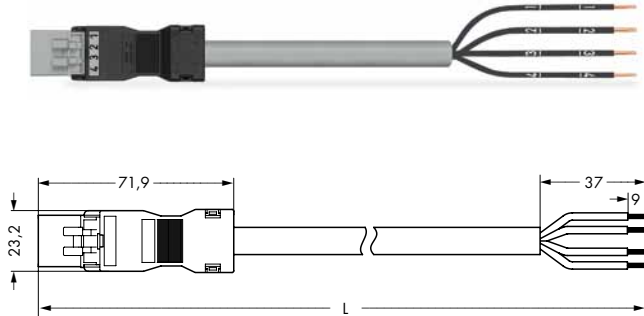






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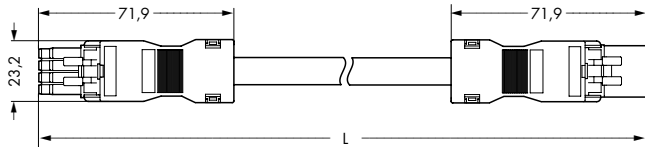

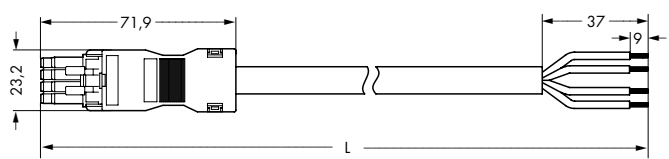

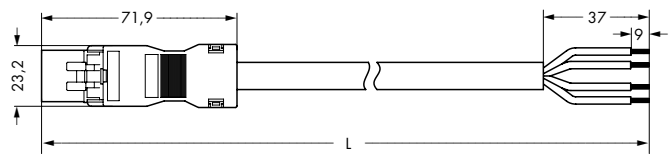
# 2 WINSTA® MINI special

## Cable Assemblies, 4 x 1 mm<sup>2</sup>

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	<p>PVC Control line: 4 x 1, gray</p> <p>400 V/6 kV/3 I<sub>N</sub> 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																
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	<p>Coding B</p> <p>PVC</p> <table border="1"> <tbody> <tr><td>●</td><td>1 m</td><td>891-8994/105-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8994/105-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8994/105-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8994/105-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8994/105-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8994/105-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8994/105-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8994/105-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8994/105-507</td></tr> </tbody> </table>	●	1 m	891-8994/105-103	●	3 m	891-8994/105-303	●	5 m	891-8994/105-503	●	1 m	891-8994/105-105	●	3 m	891-8994/105-305	●	5 m	891-8994/105-505	●	1 m	891-8994/105-107	●	3 m	891-8994/105-307	●	5 m	891-8994/105-507					
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●	5 m	891-8994/105-507																															
<p>Connecting cable, plug – free end</p>	<table border="1"> <thead> <tr> <th>Color</th> <th>Length</th> <th>Item No.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>black</td> </tr> </tbody> </table>	Color	Length	Item No.			black																										
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<p>Info</p>	<p>Accessories</p>																																
<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>② Full rated current can only be applied to a maximum of 2 poles! I<sub>N</sub> = 10 A for 3- and 4-pole load! For other cables, please contact factory.</p> <table border="1"> <tbody> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2 3 4)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2 3 4)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2 3 4)</td></tr> </tbody> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2 3 4)	●	light green	Coding B	(1 2 3 4)	●	pink	Coding B	(1 2 3 4)	<p>Locking lever, for "flying leads,"</p> <table border="1"> <tbody> <tr><td></td><td>tool operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>890-111</td><td>100 (2x50)</td></tr> <tr><td></td><td>white</td><td>890-131</td><td>100 (2x50)</td></tr> </tbody> </table> <p>Mounting carrier, for 2- to 5-pole "flying leads"</p> <table border="1"> <tbody> <tr><td></td><td>black</td><td>890-310</td><td>100</td></tr> <tr><td></td><td>white</td><td>890-311</td><td>100</td></tr> </tbody> </table>		tool operated				black	890-111	100 (2x50)		white	890-131	100 (2x50)		black	890-310	100		white	890-311	100
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	black	890-310	100																														
	white	890-311	100																														

# Cable Assemblies, 4 x 1.5 mm<sup>2</sup>

		PVC	Control line: 4 x 1.5, gray	
		400 V/6 kV/3 I <sub>N</sub> 16 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
<b>Interconnecting cable, socket – plug</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8994/006-103
		●	3 m	891-8994/006-303
		●	5 m	891-8994/006-503
		●	1 m	891-8994/006-105
		●	3 m	891-8994/006-305
		●	5 m	891-8994/006-505
		●	1 m	891-8994/006-107
		●	3 m	891-8994/006-307
		●	5 m	891-8994/006-507
<b>Connecting cable, socket – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8994/106-103
		●	3 m	891-8994/106-303
		●	5 m	891-8994/106-503
		●	1 m	891-8994/106-105
		●	3 m	891-8994/106-305
		●	5 m	891-8994/106-505
		●	1 m	891-8994/106-107
		●	3 m	891-8994/106-307
		●	5 m	891-8994/106-507
<b>Connecting cable, plug – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black
		<b>Coding B</b>		
		PVC		
		●	1 m	891-8994/206-103
		●	3 m	891-8994/206-303
		●	5 m	891-8994/206-503
		●	1 m	891-8994/206-105
		●	3 m	891-8994/206-305
		●	5 m	891-8994/206-505
		●	1 m	891-8994/206-107
		●	3 m	891-8994/206-307
		●	5 m	891-8994/206-507

### Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	891	-	8	9	9	4	/	0	0	6	-	1	0	3
light green	891	-	8	9	9	4	/	0	0	6	-	1	0	5
pink	891	-	8	9	9	4	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 4-pole, socket – plug, PVC control line, 4 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 891-8994/016-107

The 10th position defines the cable cross-section. For example, a 2 x 1 mm<sup>2</sup> cable with light green connectors has the following item number: 891-8994/005-105

The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 891-8994/006-503



# 3

- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with other systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.
  - WINSTA® MIDI connectors are not suitable for easy-to-reach areas, except IP 2XD compliant specialty products (see pages 99 to 101).



### 770 Series

Linect® T-Connector, 2-Pole	60, 66
Linect® T-Connector, 3-Pole	60, 84
Linect® T-Connector, 4-Pole	61, 110
Linect® T-Connector, 5-Pole	61, 124



### 770 Series

Pluggable Connectors, 2-Pole	62 - 63
Pluggable Connectors, 3-Pole	74 - 75, 80 - 81
Pluggable Connectors, 4-Pole	102 - 103
Pluggable Connectors, 5-Pole	114 - 117



### 770 Series

Strain Relief Housings, 2-Pole	64
Strain Relief Housings, 3-pole	76 - 77
Strain Relief Housings, 4-Pole	104
Strain Relief Housings, 5-pole	118 - 119
Strain Relief Housings, 6-Pole and 7-Pole	140 - 141



### 770 Series

Snap-In Device Connectors, 2-Pole	65
Snap-In Device Connectors, 3-Pole	78 - 79
Snap-In Device Connectors, 4-Pole	106 - 107
Snap-In Device Connectors, 5-Pole	120 - 121



### 770 Series

PCB Connectors, 3-Pole	82 - 83
PCB Connectors, 4-Pole	108 - 109
PCB Connectors, 5-Pole	122 - 123



### 770 Series

Distribution Connectors, 2-Pole	67
Intermediate Couplers and T-Distribution Connectors, 3-Pole	84 - 88
Distribution Connectors, 4-Pole	110 - 111
Intermediate Couplers and T-Distribution Connectors, 5-Pole	124 - 128



### 771 Series

Cable Assemblies, 2-Pole	68 - 73
Cable Assemblies, 3-Pole	90 - 97
Cable Assemblies, 4-Pole	112
Cable Assemblies, 5-Pole	129 - 137



### 770/771 Series

Strain Relief Housings, IP 2XD, 3-Pole	99
Cable Assemblies, IP 2XD, 3-Pole	100 - 101



### 770 Series

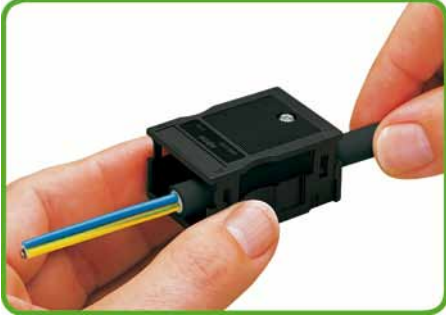
Distribution Box	138 - 139
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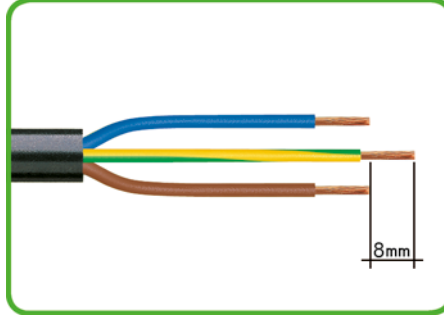
# 3 Handling WINSTA® MIDI, 770 Series

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## Preparation

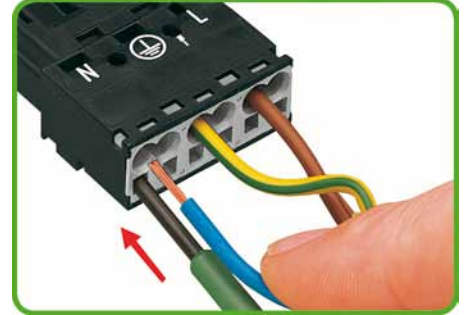


We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



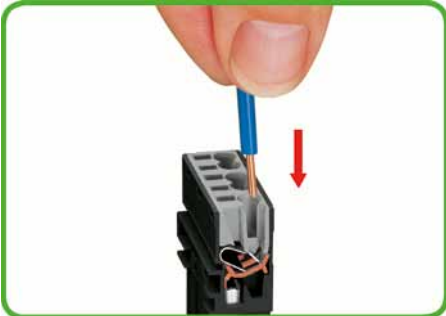
1. Strip length, outer insulation = x mm **1**
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

## Conductor termination with CAGE CLAMP® S

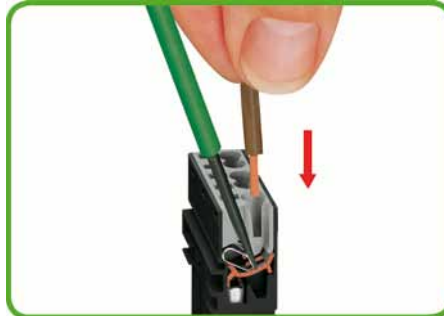


To terminate fine-stranded conductors, open clamping unit via 2.5mm screwdriver and insert stripped conductor until it hits backstop.

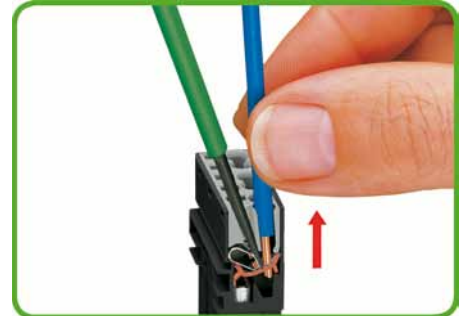
## Conductor termination with CAGE CLAMP® S



Insert stripped solid conductor until it hits backstop.



To terminate fine-stranded conductors, open clamping unit via 2.5mm screwdriver and insert stripped conductor until it hits backstop.



To remove the conductor, actuate the clamp via 2.5mm screwdriver and pull out the conductor.

## Strain relief installation



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



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



Tighten strain relief screw using a 2.5mm screwdriver.

## Variable coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

## Marking

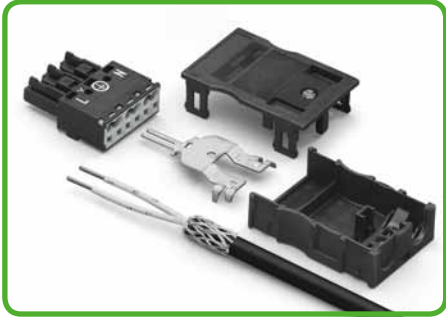


Marking strain relief housing via WSB quick marking system.

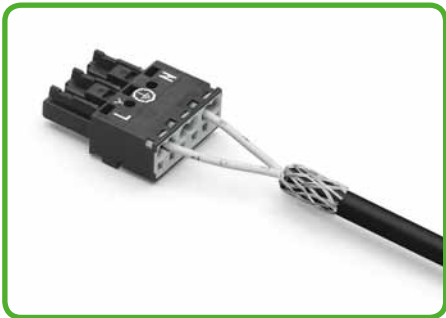
**1** Strip length, outer insulation: 2-pole = 35mm, 3- to 5-pole = 55mm



**Shield termination**



Connector with shield termination



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



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

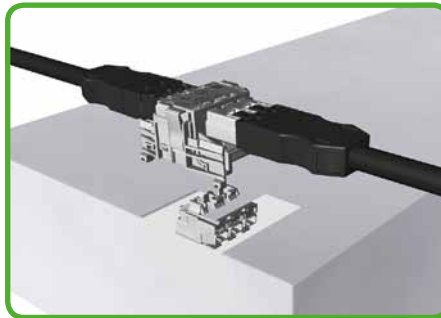


First insert the wired connector into the strain relief housing, then snap the cover and tighten the screw.

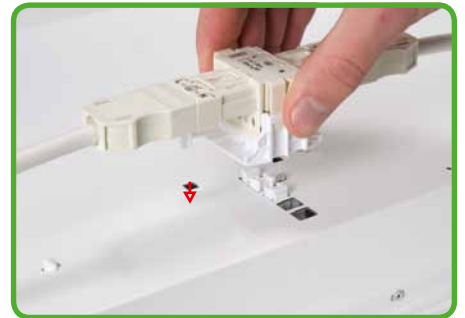


**the light connection system**

**Three easy steps to error-free connections:**

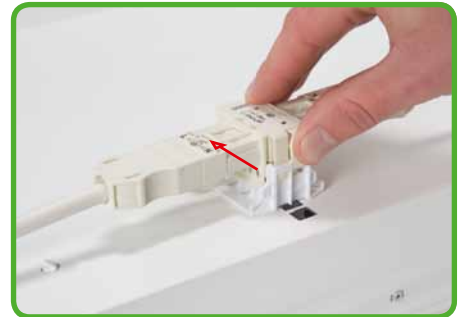
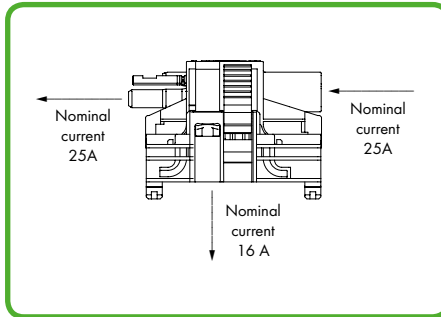


Connecting a T-connector to a 294 Series lighting connector.



Align the T-connector with the square cutouts.

**Nominal current**

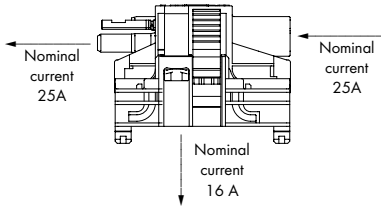


Move the T-connector towards the square cutouts until it is locked in position.

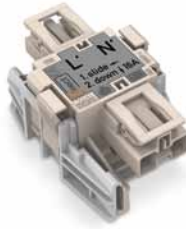


Push down until fully engaged - done!

	<p>250 V/4 kV/3 I<sub>N</sub> 25 A (16 A) ①</p> <p>② Approvals</p>	<p>250 V/4 kV/3 I<sub>N</sub> 25 A (16 A) ①</p> <p>② Approvals</p>
--	--	--



① Nominal current



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connector		Linect® T-connector, 2-pole, socket - plug, white housing, dark gray cover			linect® T-connector, 3-pole, socket - plug, white housing, white cover	
	● dark gray	770-7502	25	○ white	770-6223	25
		Suitable for 294-8022 lighting connector			Suitable for 294-8013 and 294-8113 lighting connectors	

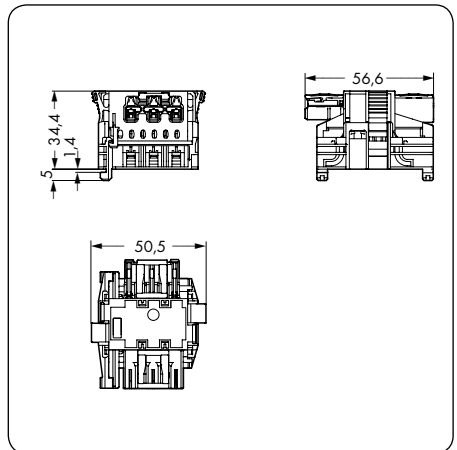
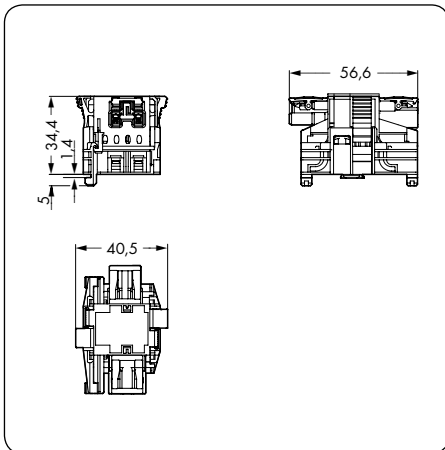
Item-Specific Accessories						
		Lockout cap, for socket, separable, 12-pole			Lockout cap, for socket, separable, 12-pole	
		black 770-201 100 white 770-221 100			black 770-201 100 white 770-221 100	
		Lockout cap, for plug, separable, 5-pole			Lockout cap, for plug, separable, 5-pole	
		yellow 770-360 100			yellow 770-360 100	
					Coding pin, for plug (A and B coding)	
					gray 770-401 100	

Info	Dimensions
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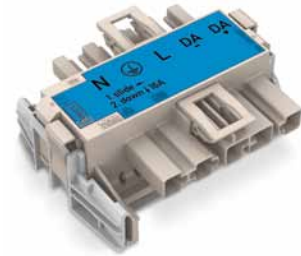
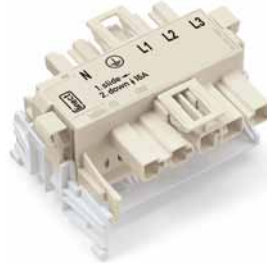
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

- 2-pole
- dark gray Coding L (L' N')
- white Coding A (L ⊕ N)
- 4-pole
- white Coding A (N ⊕ 2L 1L')
- 5-pole
- white Coding A (N ⊕ L1 L2 L3)
- blue Coding I (N ⊕ L DA- DA+)
- dark gray Coding L (N ⊕ L N' L')

For coding information, see pages 224 to 226.  
Fire load data available upon request.



<p>400 V/6 kV/3 I<sub>N</sub> 25 A (16 A) ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A (16 A) ①</p> <p>② Approvals</p> <p><i>Available March 2013</i></p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A (16 A) ①</p> <p>② Approvals</p>
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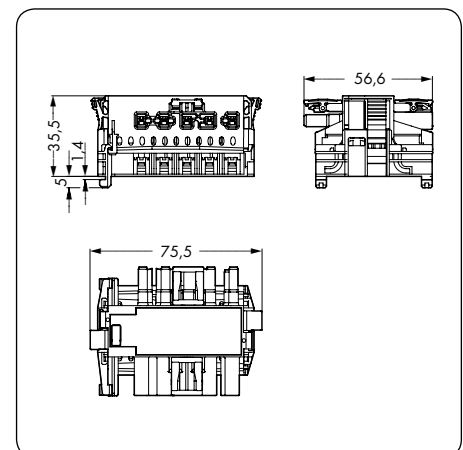
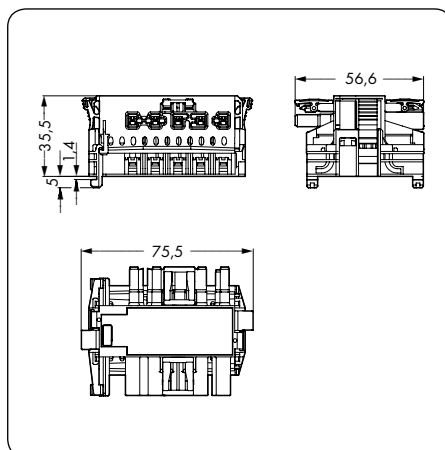
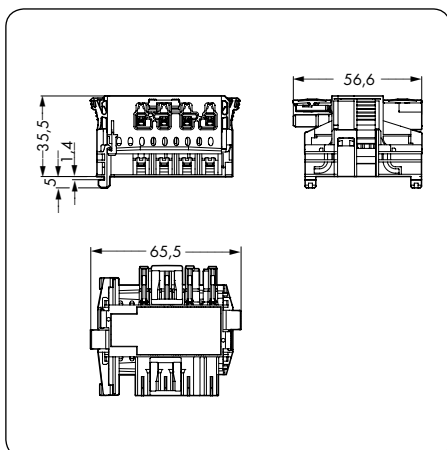


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connector, 4-pole, socket - plug, white housing, white cover			Linect® T-connector, 5-pole, socket - plug, white housing			Linect® T-connector, 5-pole, socket - plug, white housing		
○ white	<b>770-6224</b>	25	○ white	<b>770-6225</b>	25	● blue	<b>770-7105</b>	20
Suitable for 294-8024 and 294-8124 lighting connectors			Suitable for 294-8015 and 294-8115 lighting connectors			for DALI applications Suitable for 294-8035 and 294-8135 lighting connectors		
						for emergency power ● dark gray <b>770-7505</b> 20 Suitable for 294-8025 and 294-8125 lighting connectors		

### Item-Specific Accessories

<p><b>Lockout cap</b>, for socket, separable, 12-pole</p>  <p>black <b>770-201</b> 100 white <b>770-221</b> 100</p>	<p><b>Lockout cap</b>, for socket, separable, 12-pole</p>  <p>black <b>770-201</b> 100 white <b>770-221</b> 100</p>	<p><b>Lockout cap</b>, for socket, separable, 12-pole</p>  <p>black <b>770-201</b> 100 white <b>770-221</b> 100</p>
<p><b>Lockout cap</b>, for plug, separable, 5-pole</p>  <p>yellow <b>770-360</b> 100</p>	<p><b>Lockout cap</b>, for plug, separable, 5-pole</p>  <p>yellow <b>770-360</b> 100</p>	<p><b>Lockout cap</b>, for plug, separable, 5-pole</p>  <p>yellow <b>770-360</b> 100</p>
<p><b>Coding pin</b>, for plug (A and B coding)</p>  <p>gray <b>770-401</b> 100</p>		



### Dimensions



# 3 WINSTA® MIDI



## Sockets and Plugs, 2-Pole



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



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 2-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 1 cable, 7 – 10.5 mm diameter ③			Plug with strain relief housing, for 1 cable, 7 – 10.5 mm diameter ③		
	● black	770-102/041-000	25	● black	770-112/041-000	25
	○ white	770-122/041-000	25	○ white	770-132/041-000	25

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	

Accessories, 770 Series						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	

Info	Dimensions
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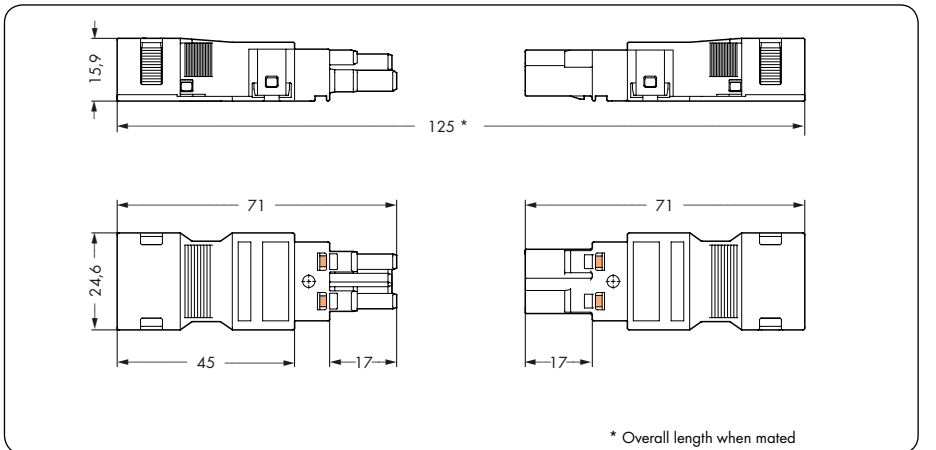
① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"



② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

③ For more strain relief housings, see page 64.

● black	Coding A	(L N)
○ white	Coding A	(L N)
● blue	Coding I	(DA+ DA-)
● dark gray	Coding L	(L' N')

For coding information, see pages 224 to 226.  
Fire load data available upon request.



2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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**Note:**



All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>		
● black	770-202	100	● black	770-212	100
○ white	770-222	100	○ white	770-232	100
● blue	770-1102	100	● blue	770-1112	100
● dark gray	770-1162	100	● dark gray	770-1172	100



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

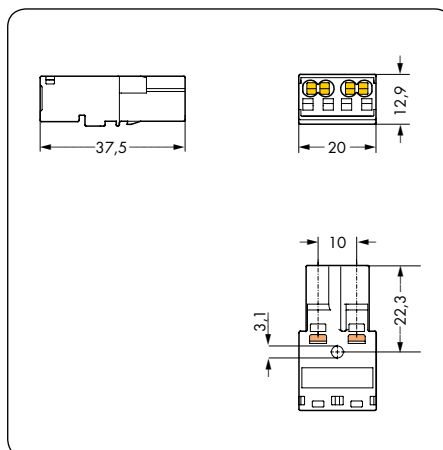
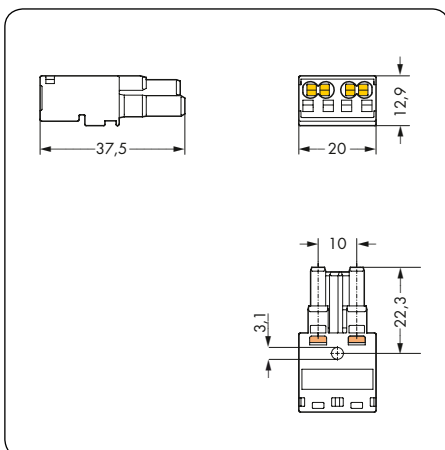
Item-Specific Accessories			Item-Specific Accessories		
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201	100		yellow 770-360	100
	white 770-221	100			

Accessories, 770 Series			Accessories, 770 Series		
<b>Locking lever, for “flying leads,” manually operated</b>			<b>Locking lever, for “flying leads,” tool operated</b>		
	black 770-101	100 (4x25)		black 770-111	100 (4x25)
	white 770-121	100 (4x25)		white 770-131	100 (4x25)



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

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

## Strain Relief Housings, 2-Pole, for Different Cable Diameters

	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> <li>- 2-pole sockets</li> <li>- 2-pole plugs</li> </ul> <p><b>1 Approvals</b></p>	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> <li>- 2-pole sockets</li> <li>- 2-pole plugs</li> </ul> <p><b>1 Approvals</b></p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 1 cable, 5 - 9 mm diameter <b>2</b>			Strain relief housing, for 1 cable, 7 - 10.5 mm diameter <b>2</b>		
	black	770-502/042-000	50	black	770-502/041-000	50
	white	770-512/042-000	50	white	770-512/041-000	50

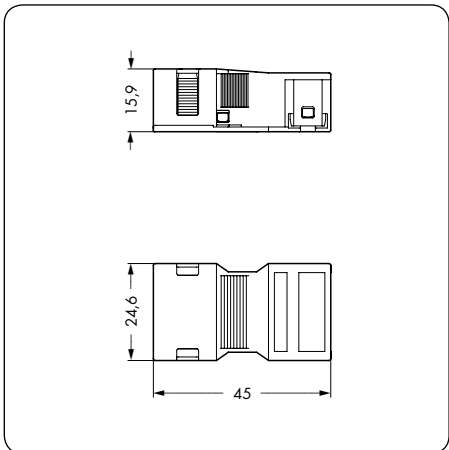
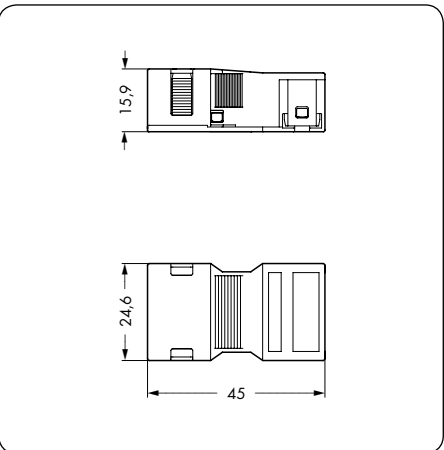
Item-Specific Accessories		
	<p>Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 20 x 6.5 mm</p> 	<p>Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 20 x 6.5 mm</p> 

Info	Dimensions
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**1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

**2** For H05VV and NYM cables  
For other cables, please contact factory.

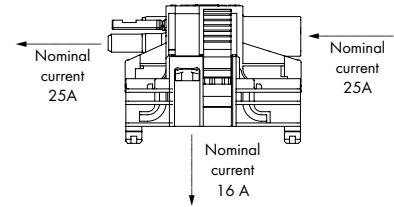
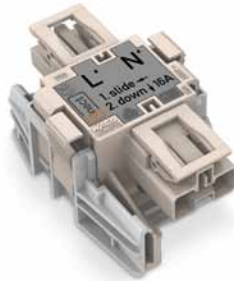
For coding information, see pages 224 to 226.  
Fire load data available upon request.





250 V/4 kV/3  
 $I_N$  25 A (16 A) ②

① Approvals



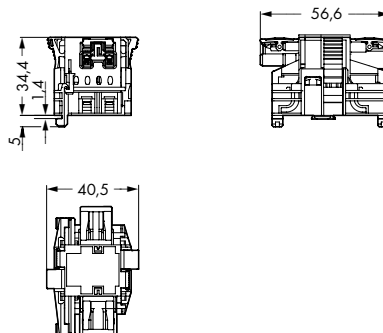
② Nominal current

Description	Color	Item No.	Pack. Unit
<b>Linect® T-connector, 2-pole, socket - plug, white housing, dark gray cover</b>			
	● dark gray	<b>770-7502</b>	25
Suitable for 294-8022 lighting connector			
<b>Item-Specific Accessories</b>			
<b>Lockout cap, for socket, separable, 12-pole</b>			
		black <b>770-201</b>	100
		white <b>770-221</b>	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
		yellow <b>770-360</b>	100
<b>Info</b>	<b>Dimensions</b>		

① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

- black Coding A (L N)
- white Coding A (L N)
- dark gray Coding L (L' N')

For coding information, see pages 224 to 226.  
 Fire load data available upon request.







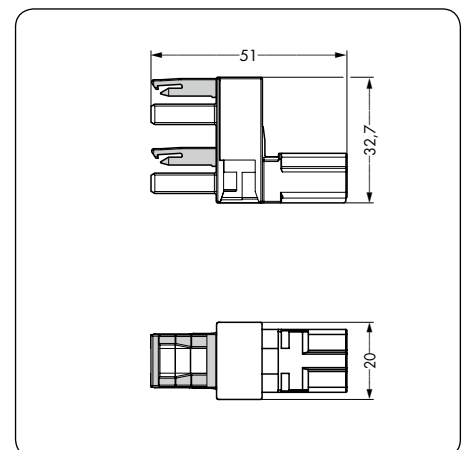
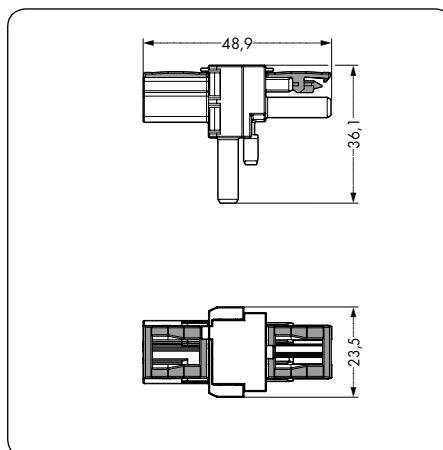
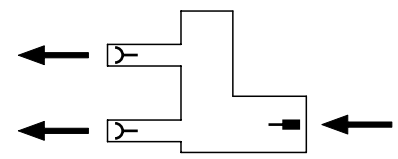
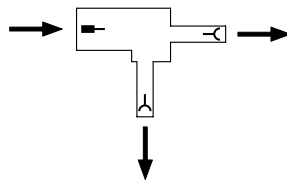



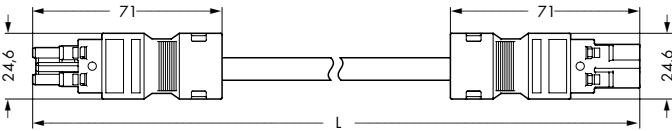

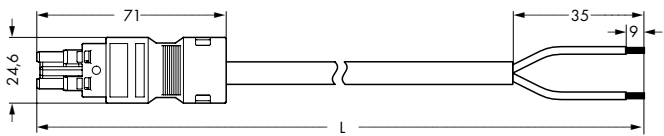

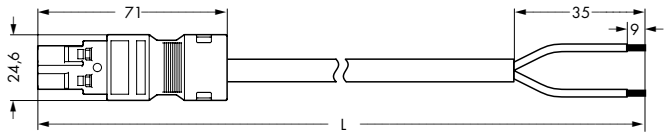





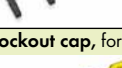

# T-Distribution Connectors, 2-Pole

	250 V/4 kV/3 $I_N$ 25 A  ① Approvals  <i>Available April 2013</i>	250 V/4 kV/3 $I_N$ 25 A  ① Approvals  <i>Available April 2013</i>
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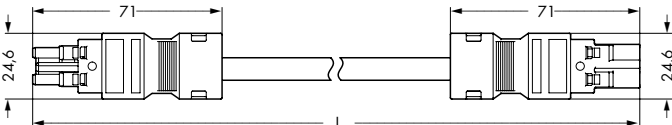

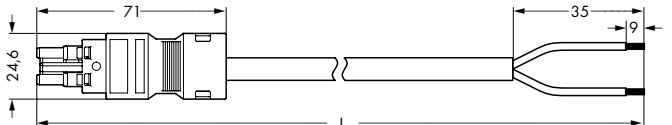

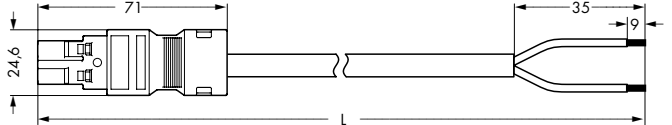




Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>T-distribution connectors, 2-pole</b>	<b>T-distribution connector, 1 x plug / 2 x socket</b>					
	● black	<b>770-1606</b>	50	● black	<b>770-1634</b>	50
	○ white	<b>770-1656</b>	50	○ white	<b>770-1684</b>	50
	for "flying leads," with 3rd locking lever					
	● black	<b>770-1615</b>	50	● black	<b>770-1636</b>	50
	○ white	<b>770-1665</b>	50	○ white	<b>770-1686</b>	50
<b>Item-Specific Accessories</b>						
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>		
		black <b>770-201</b> 100 white <b>770-221</b> 100			black <b>770-201</b> 100 white <b>770-221</b> 100	
	<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
		yellow <b>770-360</b> 100			yellow <b>770-360</b> 100	
<b>Dimensions</b>						



		PVC H05VV-F 2x1 halogen-free H05Z1 Z1-F 2x1  250 V/4 kV/3 I <sub>N</sub> 10 A  Conductor ends, bonded: 9 mm ① Approvals					
Interconnecting cable, socket – plug		Length Item No. black	Item No. white	Item No. black	Item No. white		
		● Coding I, e.g., for dimming function (DALI)					
		PVC halogen-free					
		1 m	771-8982/005-101	.../005-102	771-8982/015-101 .../015-102		
		2 m	771-8982/005-201	.../005-202	771-8982/015-201 .../015-202		
		3 m	771-8982/005-301	.../005-302	771-8982/015-301 .../015-302		
		5 m	771-8982/005-501	.../005-502	771-8982/015-501 .../015-502		
		7 m	771-8982/005-701	.../005-702	771-8982/015-701 .../015-702		
Connecting cable, socket – free end		Length Item No. black	Item No. white	Item No. black	Item No. white		
		● Coding I, e.g., for dimming function (DALI)					
		PVC halogen-free					
		1 m	771-8982/105-101	.../105-102	771-8982/115-101 .../115-102		
		2 m	771-8982/105-201	.../105-202	771-8982/115-201 .../115-202		
		3 m	771-8982/105-301	.../105-302	771-8982/115-301 .../115-302		
		5 m	771-8982/105-501	.../105-502	771-8982/115-501 .../115-502		
		7 m	771-8982/105-701	.../105-702	771-8982/115-701 .../115-702		
Connecting cable, plug – free end		Length Item No. black	Item No. white	Item No. black	Item No. white		
		● Coding I, e.g., for dimming function (DALI)					
		PVC halogen-free					
		1 m	771-8982/205-101	.../205-102	771-8982/215-101 .../215-102		
		2 m	771-8982/205-201	.../205-202	771-8982/215-201 .../215-202		
		3 m	771-8982/205-301	.../205-302	771-8982/215-301 .../215-302		
		5 m	771-8982/205-501	.../205-502	771-8982/215-501 .../215-502		
		7 m	771-8982/205-701	.../205-702	771-8982/215-701 .../215-702		
Info		Accessories					
① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.  For other cables, please contact factory.  ● black Coding A (L N) ○ white Coding A (L N) ● blue Coding I (DA+ DA-)		Locking lever, for "flying leads," manually operated					
				black	770-101	100 (4x25)	
				white	770-121	100 (4x25)	
		Locking lever, for "flying leads," tool operated					
				black	770-111	100 (4x25)	
				white	770-131	100 (4x25)	
		Lockout cap, for socket, separable, 12-pole					
				black	770-201	100	
				white	770-221	100	
		Lockout cap, for plug, separable, 5-pole					
				yellow	770-360	100	
		For coding information, see pages 224 to 226. Fire load data available upon request.					

# Cable Assemblies 2 x 1.5 mm<sup>2</sup>

		<p>PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<b>Interconnecting cable, socket – plug</b>		<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. white</th> <th>Item No. black</th> <th>Item No. white</th> </tr> </thead> <tbody> <tr> <td colspan="5">● ○ Coding A</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-8992/006-101</td> <td>.../006-102</td> <td>771-8992/016-101</td> <td>.../016-102</td> </tr> <tr> <td>2 m</td> <td>771-8992/006-201</td> <td>.../006-202</td> <td>771-8992/016-201</td> <td>.../016-202</td> </tr> <tr> <td>3 m</td> <td>771-8992/006-301</td> <td>.../006-302</td> <td>771-8992/016-301</td> <td>.../016-302</td> </tr> <tr> <td>5 m</td> <td>771-8992/006-501</td> <td>.../006-502</td> <td>771-8992/016-501</td> <td>.../016-502</td> </tr> <tr> <td>7 m</td> <td>771-8992/006-701</td> <td>.../006-702</td> <td>771-8992/016-701</td> <td>.../016-702</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● ○ Coding A					PVC		halogen-free			1 m	771-8992/006-101	.../006-102	771-8992/016-101	.../016-102	2 m	771-8992/006-201	.../006-202	771-8992/016-201	.../016-202	3 m	771-8992/006-301	.../006-302	771-8992/016-301	.../016-302	5 m	771-8992/006-501	.../006-502	771-8992/016-501	.../016-502	7 m	771-8992/006-701	.../006-702	771-8992/016-701	.../016-702
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<b>Interconnecting cable, socket – plug</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● <b>Coding I</b> , e.g., for dimming function (DALI) PVC halogen-free				
		1 m	771-8982/006-101	.../006-102	771-8982/016-101	.../016-102
		2 m	771-8982/006-201	.../006-202	771-8982/016-201	.../016-202
		3 m	771-8982/006-301	.../006-302	771-8982/016-301	.../016-302
		5 m	771-8982/006-501	.../006-502	771-8982/016-501	.../016-502
		7 m	771-8982/006-701	.../006-702	771-8982/016-701	.../016-702
<b>Connecting cable, socket – free end</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● <b>Coding I</b> , e.g., for dimming function (DALI) PVC halogen-free				
		1 m	771-8982/106-101	.../106-102	771-8982/116-101	.../116-102
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		3 m	771-8982/106-301	.../106-302	771-8982/116-301	.../116-302
		5 m	771-8982/106-501	.../106-502	771-8982/116-501	.../116-502
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<b>Connecting cable, plug – free end</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● <b>Coding I</b> , e.g., for dimming function (DALI) PVC halogen-free				
		1 m	771-8982/206-101	.../206-102	771-8982/216-101	.../216-102
		2 m	771-8982/206-201	.../206-202	771-8982/216-201	.../216-202
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<p>❶ For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>For other cables, please contact factory.</p> <p>● blue Coding I (DA+ DA-)                  ● dark gray Coding L (L' N')</p> <p>For coding information, see pages 224 to 226.                  Fire load data available upon request.</p>		Locking lever, for "flying leads," manually operated				
		 black <b>770-101</b> 100 (4x25)				
		white <b>770-121</b> 100 (4x25)				
		Locking lever, for "flying leads," tool operated				
		 black <b>770-111</b> 100 (4x25)				
		white <b>770-131</b> 100 (4x25)				
		Lockout cap, for socket, separable, 12-pole				
		 black <b>770-201</b> 100				
		white <b>770-221</b> 100				
		Lockout cap, for plug, separable, 5-pole				
 yellow <b>770-360</b> 100						

	<p>PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.



● black Coding A (L N)  
○ white Coding A (L N)  
● dark gray Coding L (L' N')

For coding information, see pages 224 to 226.  
Fire load data available upon request.

<p>manually operated</p>	<table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100 (4x25)</td> </tr> </table>	black	770-101	100 (4x25)	white	770-121	100 (4x25)
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<p>lockout cap, for socket, separable, 12-pole</p>	<table border="1"> <tr> <td>black</td> <td>770-201</td> <td>100</td> </tr> <tr> <td>white</td> <td>770-221</td> <td>100</td> </tr> </table>	black	770-201	100	white	770-221	100
black	770-201	100					
white	770-221	100					
<p>lockout cap, for plug, separable, 5-pole</p>	<table border="1"> <tr> <td>yellow</td> <td>770-360</td> <td>100</td> </tr> </table>	yellow	770-360	100			
yellow	770-360	100					




	<p>PVC H05VV-F 2x2.5 halogen-free H05Z1Z1-F 2x2.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<b>Interconnecting cable, socket – plug</b>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. white</th> <th>Item No. black</th> <th>Item No. white</th> </tr> </thead> <tbody> <tr> <td>● Coding L</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="2">PVC</td> <td colspan="2">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-8982/007-103</td> <td>.../007-104</td> <td>771-8982/017-103</td> <td>.../017-104</td> </tr> <tr> <td>2 m</td> <td>771-8982/007-203</td> <td>.../007-204</td> <td>771-8982/017-203</td> <td>.../017-204</td> </tr> <tr> <td>3 m</td> <td>771-8982/007-303</td> <td>.../007-304</td> <td>771-8982/017-303</td> <td>.../017-304</td> </tr> <tr> <td>5 m</td> <td>771-8982/007-503</td> <td>.../007-504</td> <td>771-8982/017-503</td> <td>.../017-504</td> </tr> <tr> <td>7 m</td> <td>771-8982/007-703</td> <td>.../007-704</td> <td>771-8982/017-703</td> <td>.../017-704</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● Coding L						PVC		halogen-free		1 m	771-8982/007-103	.../007-104	771-8982/017-103	.../017-104	2 m	771-8982/007-203	.../007-204	771-8982/017-203	.../017-204	3 m	771-8982/007-303	.../007-304	771-8982/017-303	.../017-304	5 m	771-8982/007-503	.../007-504	771-8982/017-503	.../017-504	7 m	771-8982/007-703	.../007-704	771-8982/017-703	.../017-704
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<b>Connecting cable, socket – free end</b>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. white</th> <th>Item No. black</th> <th>Item No. white</th> </tr> </thead> <tbody> <tr> <td>● Coding L</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="2">PVC</td> <td colspan="2">halogen-free</td> </tr> <tr> <td>1 m</td> <td>771-8982/107-103</td> <td>.../107-104</td> <td>771-8982/117-103</td> <td>.../117-104</td> </tr> <tr> <td>2 m</td> <td>771-8982/107-203</td> <td>.../107-204</td> <td>771-8982/117-203</td> <td>.../117-204</td> </tr> <tr> <td>3 m</td> <td>771-8982/107-303</td> <td>.../107-304</td> <td>771-8982/117-303</td> <td>.../117-304</td> </tr> <tr> <td>5 m</td> <td>771-8982/107-503</td> <td>.../107-504</td> <td>771-8982/117-503</td> <td>.../117-504</td> </tr> <tr> <td>7 m</td> <td>771-8982/107-703</td> <td>.../107-704</td> <td>771-8982/117-703</td> <td>.../117-704</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● Coding L						PVC		halogen-free		1 m	771-8982/107-103	.../107-104	771-8982/117-103	.../117-104	2 m	771-8982/107-203	.../107-204	771-8982/117-203	.../117-204	3 m	771-8982/107-303	.../107-304	771-8982/117-303	.../117-304	5 m	771-8982/107-503	.../107-504	771-8982/117-503	.../117-504	7 m	771-8982/107-703	.../107-704	771-8982/117-703	.../117-704
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## Sockets and Plugs, 3-Pole

<p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>
--	------------------------	--	------------------------



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket with strain relief housing, for 2 cables, 8 – 11.5 mm diameter ❸			Plug with strain relief housing, for 2 cables, 8 – 11.5 mm diameter ❸		
	● black	770-103	25	● black	770-113	25
	○ white	770-123	25	○ white	770-133	25

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201	100		yellow 770-360	100
		white 770-221	100			
				Coding pin, for plug (A and B coding)		
					gray 770-401	100

Accessories, 770 Series						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101	100 (4x25)		black 770-111	100 (4x25)
		white 770-121	100 (4x25)		white 770-131	100 (4x25)
	Marker, for manual marking					
		white 770-450	50			

Info	Dimensions
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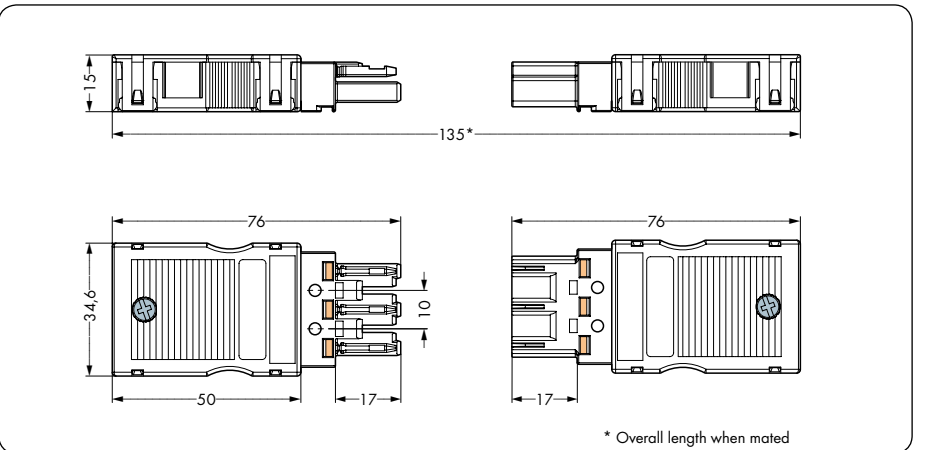
❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

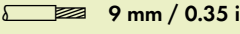
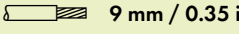
❸ For more strain relief housings, see pages 76 and 77.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.





2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>		
● black	770-203	100	● black	770-213	100
○ white	770-223	100	○ white	770-233	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






Snap on locking lever. Observe direction!

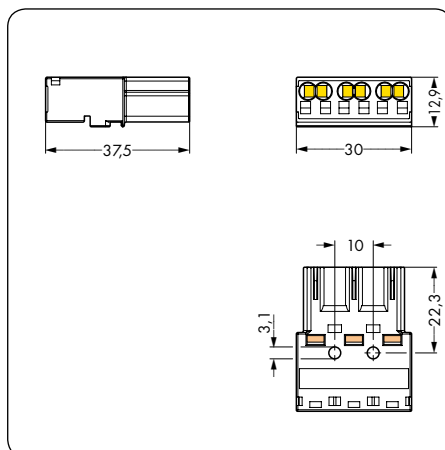
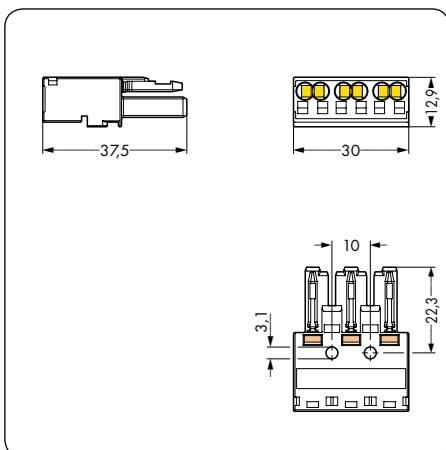
Item-Specific Accessories					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201	100		yellow 770-360	100
	white 770-221	100			
<b>Coding pin, for plug (A and B coding)</b>					
		gray 770-401		100	



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

Accessories, 770 Series					
<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black 770-101	100 (4x25)		black 770-111	100 (4x25)
	white 770-121	100 (4x25)		white 770-131	100 (4x25)
<b>Marker, for manual marking</b>					
	white 770-450	50			

**Dimensions**



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

## Strain Relief Housings, 3-Pole, for Different Cable Diameters

	Snap-on type strain relief housings for: - 3-pole sockets - 3-pole plugs  <b>1</b> Approvals	Snap-on type strain relief housings for: - 3-pole sockets - 3-pole plugs  <b>1</b> Approvals
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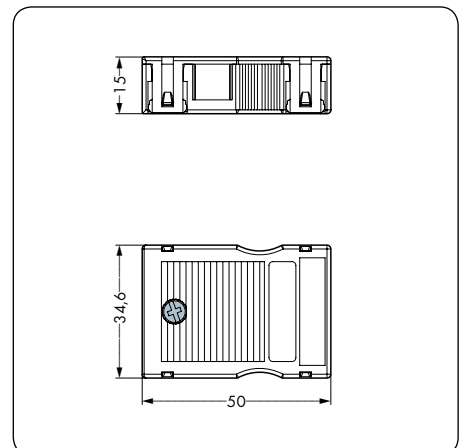
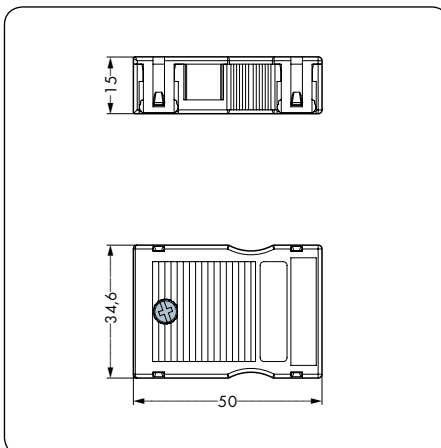
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings, 3-pole	Strain relief housing, for 2 cables, 4.5 - 8 mm diameter <b>2</b>			Strain relief housing, for 2 cables, 8 - 11.5 mm diameter <b>2</b>		
	black	770-503/023-000	50	black	770-503	50
	white	770-513/023-000	50	white	770-513	50

Item-Specific Accessories						
		Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm			Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm	
		Shield connecting plate, for sockets and plugs, for 2 cables, 4 - 7.5 mm diameter <b>770-523</b> 25				

Info	Dimensions
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- 1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- 2** For H05VV and NYM cables  
For other cables, please contact factory.

Fire load data available upon request.





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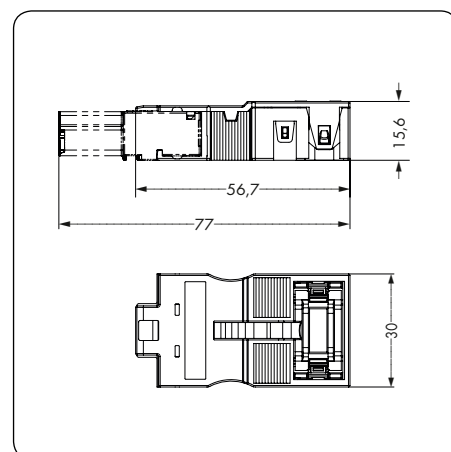
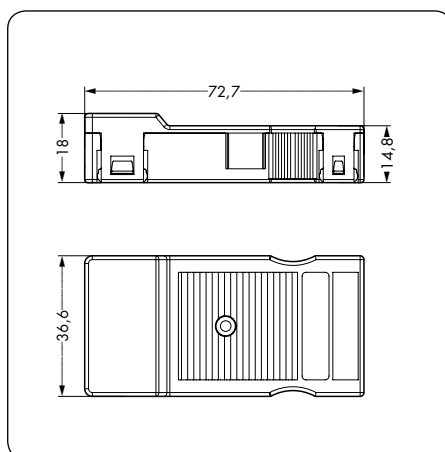
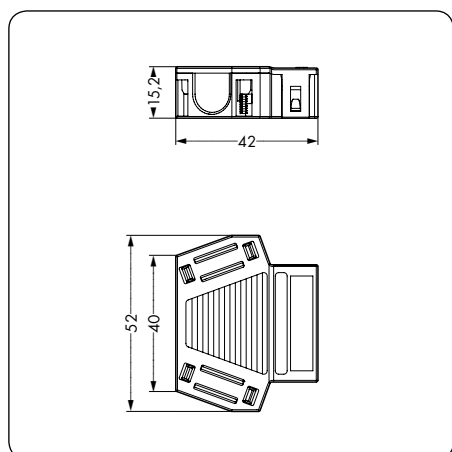


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<p><b>Strain relief housing, angled</b> for 2 cables, 8 - 11.5 mm diameter ②</p>			<p><b>Strain relief housing for 4 mm<sup>2</sup> conductors,</b> for 1 cable, 9 - 13 mm diameter ② Strip length, outer insulation: 71 mm</p>			<p><b>Strain relief housing, for quick assembly,</b> for 1 cable, 7 - 11.5 mm diameter ②</p>		
black	770-503/032-000	25	black	770-503/021-000	50	black	770-503/035-000	50
white	770-513/032-000	25	white	770-513/021-000	50	white	770-513/035-000	50

**Item-Specific Accessories**

<p><b>Marking strip, self-adhesive, on DIN A4 carrier card,</b> 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm</p> 	<p><b>Marking strip, self-adhesive, on DIN A4 carrier card,</b> 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm</p> 	



**Dimensions**

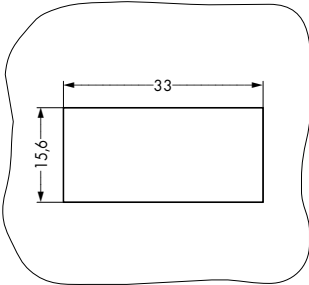


# 3 WINSTA® MIDI



## Snap-In Sockets, 3-Pole



78

<b>Cutout dimensions</b>  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ①   2 x AWG 20 – 12 250 V/4 kV/3 I <sub>N</sub> 25 A	2 x 0.5 – 4 mm <sup>2</sup> ①   2 x AWG 20 – 12 250 V/4 kV/3 I <sub>N</sub> 25 A
	 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
<b>Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP® S connection, snap-in frame, 3-pole</b>	<b>Socket</b>			<b>Socket with protruding interface</b>		
	● black	770-703	100	● black	770-703/009-000	45
	○ white	770-723	100	○ white	770-723/009-000	45
	● red	770-2303	100			
	● orange	770-2343	100			
	● brown	770-2363	100			

Item-Specific Accessories						
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>		
		black 770-201 100	white 770-221 100		black 770-201 100	white 770-221 100

Accessories, 770 Series						
	<b>Lockout cap, for cutout, 3-pole</b>			<b>Lockout cap, for cutout, 3-pole</b>		
		black 770-643 100	white 770-693 100		black 770-643 100	white 770-693 100

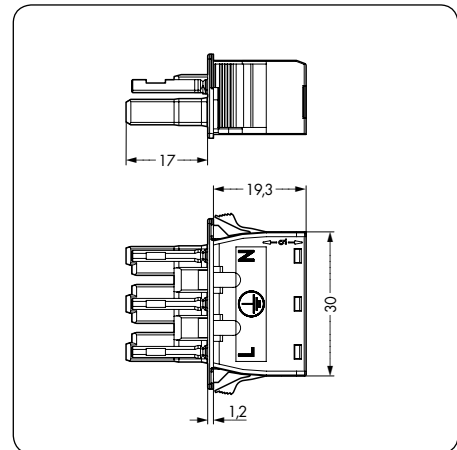
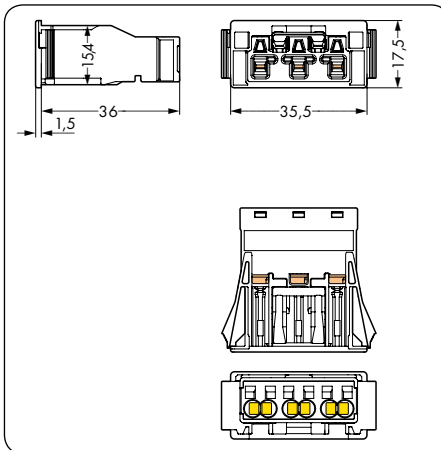
Info	Dimensions
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① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.



# Snap-In Plugs and Frames, 3-pole

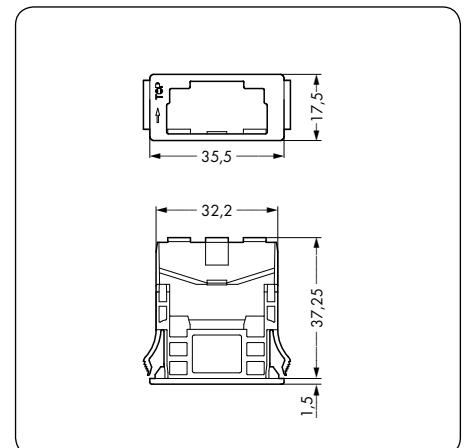
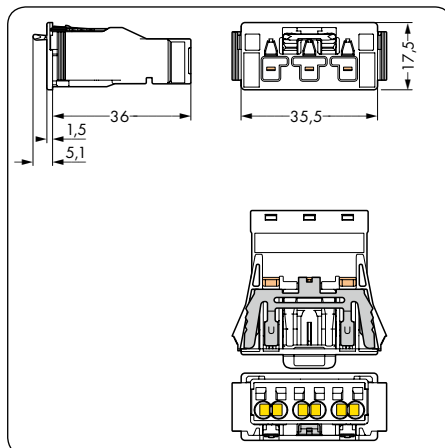
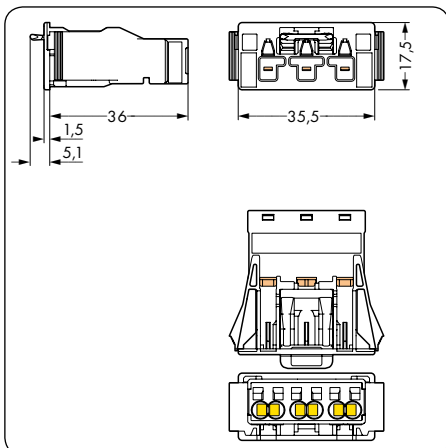
<p>2 x 0.5 – 4 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ① 250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>Snap-in frames: – for 3-pole sockets and plugs (see page 75) Plate thickness: 1 – 3 mm</p>
--	------------------------	--	------------------------	---



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Plug</b>			<b>Plug with direct ground contact</b>			<b>Snap-in frame, 3-pole</b>		
● black	770-713	100	● black	770-713/007-000	100	black	770-318	100
○ white	770-733	100	○ white	770-733/007-000	100	white	770-338	100
● red	770-2313	100	● red	770-2313/007-000	100			
● orange	770-2353	100						

Item-Specific Accessories								
<b>Lockout cap, for plug, separable, 5-pole</b> yellow 770-360 100			<b>Lockout cap, for plug, separable, 5-pole</b> yellow 770-360 100			<b>Locking lever, oversized, tool operated</b> gray 770-140 100 (4x25)		
<b>Coding pin, for plug (A and B coding)</b> gray 770-401 100			<b>Coding pin, for plug (A and B coding)</b> gray 770-401 100			<p>Insert the socket or plug into the frame (observe the "TOP" marking on the frame!). Snap the assembled unit into the cutout.</p>		
Accessories, 770 Series								
<b>Lockout cap, for cutout, 3-pole</b> black 770-643 100 white 770-693 100			<b>Lockout cap, for cutout, 3-pole</b> black 770-643 100 white 770-693 100					

## Dimensions



	<p>2 x 0.5 – 4 mm<sup>2</sup> 250 V/4 kV/3 I<sub>N</sub> 25 A</p>	<p>2 x AWG 20 – 12</p>	
	<p> 9 mm / 0.35 in</p>		
	<p><b>1</b> Approvals</p>		



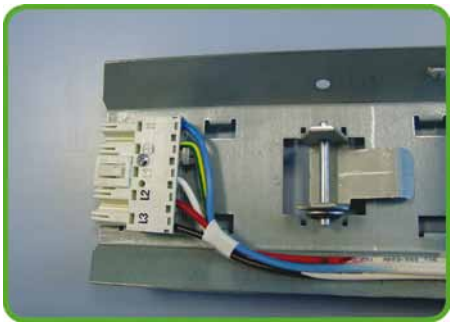
Description	Color	Item No.	Pack. Unit
Plug with ground contact, device connector	Plug, with ground contact, 3-pole, <b>without</b> strain relief housing; e.g., for assembly on luminaire casings		
	● black	770-213/002-000	25
	○ white	770-233/002-000	25
Please contact factory for delivery time and other colors for 4-/5-pole plugs.			

Item-Specific Accessories			
	Lockout cap, for plug, separable, 5-pole		
		yellow	770-360 100
	Coding pin, for plug (A and B coding)		
		gray	770-401 100

Accessories, 770 Series			
	Locking lever, for "flying leads," manually operated		
		black	770-101 100 (4x25)
		white	770-121 100 (4x25)
	Locking lever, for "flying leads," tool operated		
		black	770-111 100 (4x25)
		white	770-131 100 (4x25)

Info	Application
------	-------------

- 1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - 2** Internal connection via 0.8 mm thick current bars is possible. For other thicknesses, please contact factory.
- black    Coding A    (L ⊕ N)  
○ white    Coding A    (L ⊕ N)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.



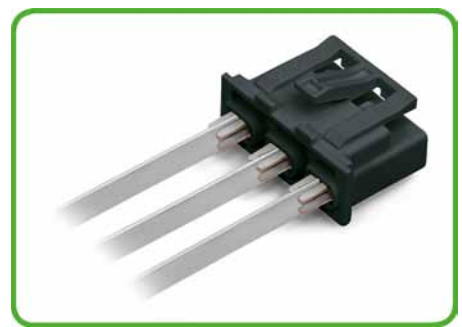
Plug with ground contact mounted on luminaire (example shows 5-pole plug).

# Device Connectors, 3-Pole

250 V/4 kV/3 $I_N$ 25 A  ① Approvals	250 V/4 kV/3 $I_N$ 25 A  ① Approvals
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket module ②</b>			<b>Plug module with locking lever ②</b>		
● black	770-408	100	● black	770-418	100
○ white	770-428	100	○ white	770-438	100

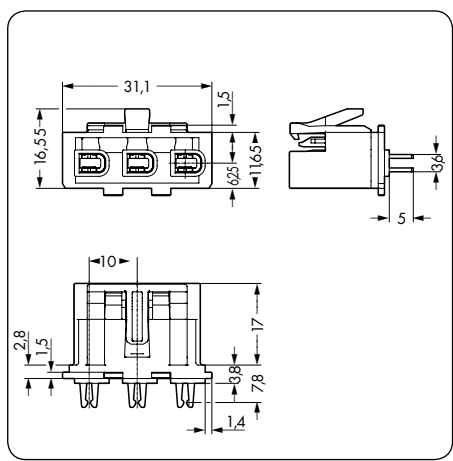
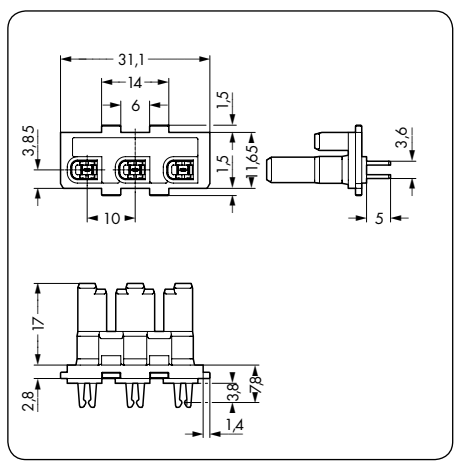


Device connectors can be cost-effectively installed in appropriate guide slots of a housing. Internal electrical connection is performed by contacting the 0.8 mm thick current bars. ②

Item-Specific Accessories		
<b>Lockout cap, for socket, separable, 12-pole</b>		<b>Lockout cap, for plug, separable, 5-pole</b>
	black 770-201 100 white 770-221 100	
		yellow 770-360 100

Accessories, 770 Series		
<b>Locking lever, for "flying leads," manually operated</b>		<b>Locking lever, for "flying leads," tool operated</b>
	black 770-101 100 (4x25) white 770-121 100 (4x25)	
		black 770-111 100 (4x25) white 770-131 100 (4x25)

## Dimensions





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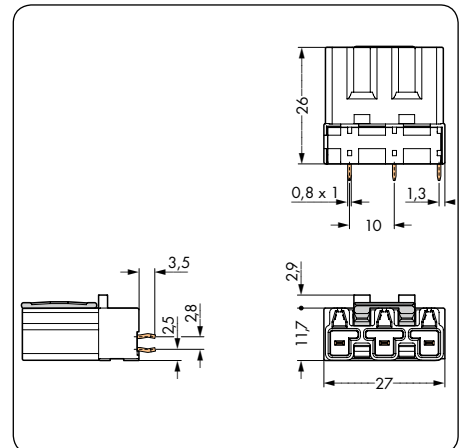
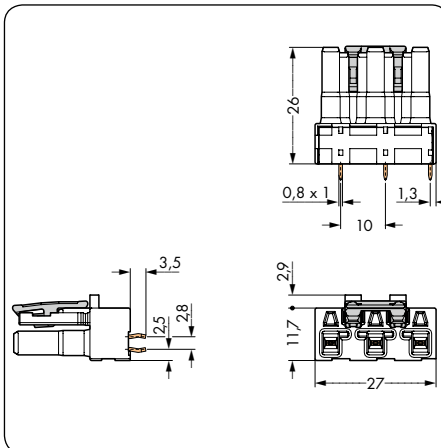


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-803	100	● black	770-813	100
	○ white	770-823	100	○ white	770-833	100
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	
<b>Accessories, 770 Series</b>						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Info</b>	<b>Dimensions</b>					

- ① For current load, see table on page 83.
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.








250 V/4 kV/3 $I_N$ 25 A ①  ② Approvals	250 V/4 kV/3 $I_N$ 25 A ①  ② Approvals
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① Nominal current depends on PCB track dimensions

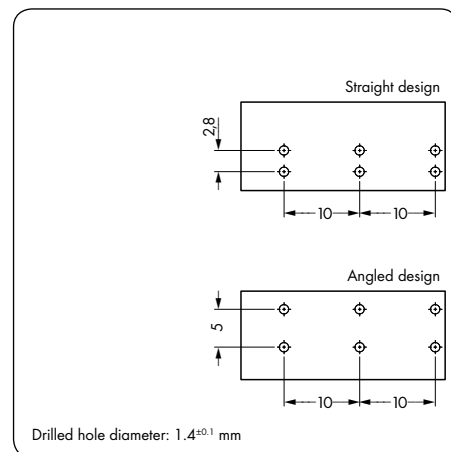
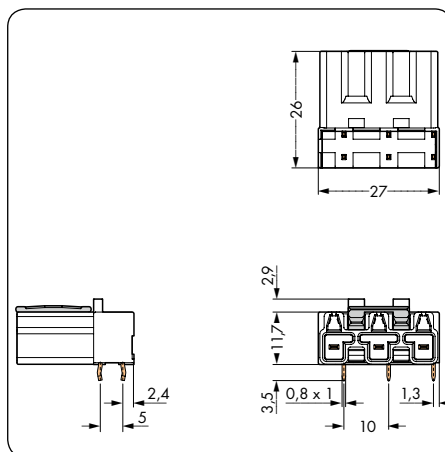
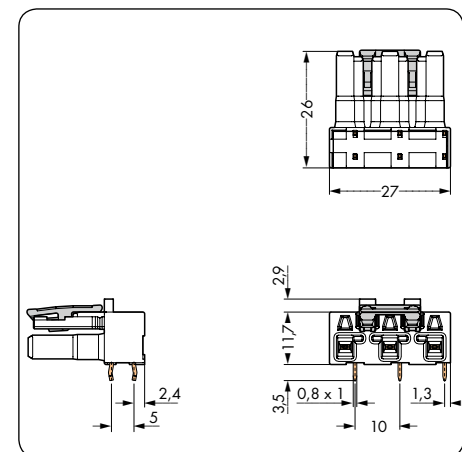
Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm <sup>2</sup>

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
● black	770-803/011-000	100	● black	770-813/011-000	100
○ white	770-823/011-000	100	○ white	770-833/011-000	100

Item-Specific Accessories					
<b>Lockout cap, for socket, separable, 12-pole</b> 			<b>Lockout cap, for plug, separable, 5-pole</b> 		
	black	770-201 100		yellow	770-360 100
	white	770-221 100			
<b>Coding pin, for plug (A and B coding)</b> 					
			gray	770-401 100	

Accessories, 770 Series					
<b>Locking lever, for "flying leads," manually operated</b> 			<b>Locking lever, for "flying leads," tool operated</b> 		
	black	770-101 100 (4x25)		black	770-111 100 (4x25)
	white	770-121 100 (4x25)		white	770-131 100 (4x25)

Dimensions	Hole patterns
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# Intermediate Couplers and h-Distribution Connectors, 3-Pole

250 V/4 kV/3 I <sub>N</sub> 25 A  ② Approvals	250 V/4 kV/3 I <sub>N</sub> 25 A  ② Approvals	250 V/4 kV/3 I <sub>N</sub> 25 A  ② Approvals
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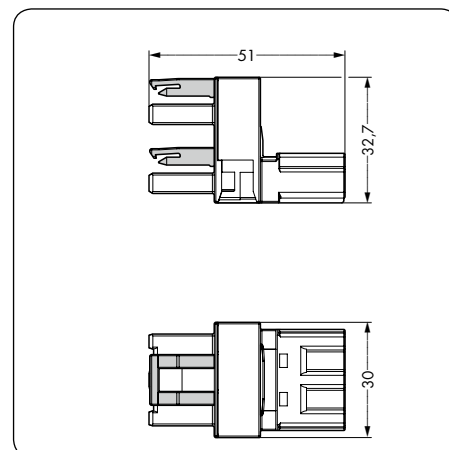
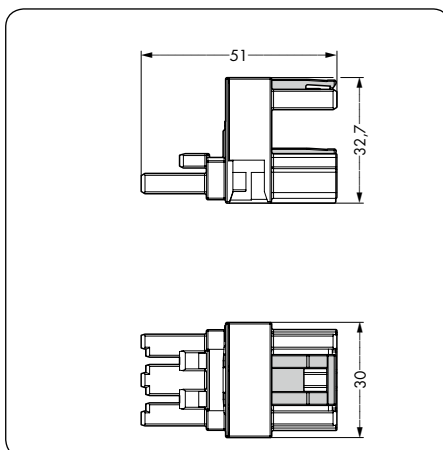
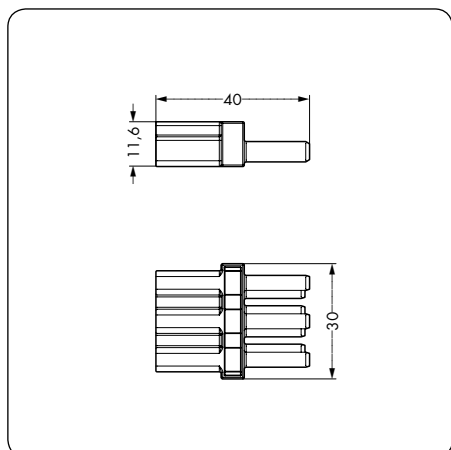
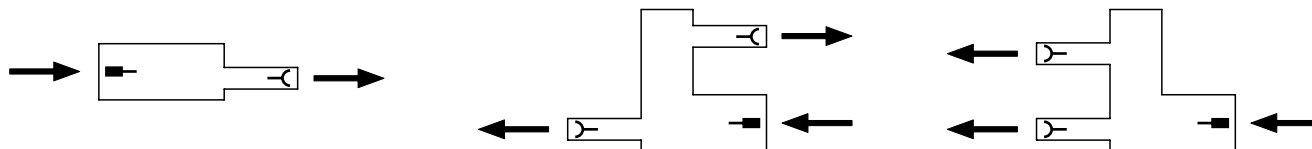


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Intermediate coupler, 1 x plug / 1 x socket</b>			<b>h-distribution connector, bi-directional, plug - socket / socket</b>			<b>h-distribution connector, unidirectional, plug / socket - socket</b>		
● black	770-603	100	● black	770-633	50	● black	770-634	50
○ white	770-653	100	○ white	770-683	50	○ white	770-684	50
			for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
			● black	770-635	50	● black	770-636	50
			○ white	770-685	50	○ white	770-686	50
						● red	770-936	50

## Item-Specific Accessories

<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100	<b>Mounting plate, for distribution connectors</b>  black 770-623 25 white 770-673 25	<b>Mounting plate, for distribution connectors</b>  black 770-623 25 white 770-673 25
<b>Lockout cap, for plug, separable, 5-pole</b>  yellow 770-360 100	<b>Fixing pin, for mounting plates</b>  ③ black 890-601 250 ④ black 770-601 250	<b>Fixing pin, for mounting plates</b>  ③ black 890-601 250 ④ black 770-601 250
	<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100	<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100

## Dimensions

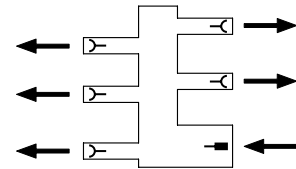
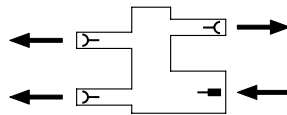


	250 V/4 kV/3 $I_N$ 25 A  ① Approvals	250 V/4 kV/3 $I_N$ 25 A  ① Approvals
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution connectors, pluggable		Distribution connector, 3-way, 1 x plug / 3 x socket			Distribution connector, 5-way, 1 x plug / 5 x socket	
	● black	770-607	50	● black	770-608	25
	○ white	770-657	50	○ white	770-658	25
	● red	770-907	50			

Item-Specific Accessories						
	Mounting plate, for distribution connectors  black 770-623 25 white 770-673 25			Mounting plate, for distribution connectors  black 770-623 25 white 770-673 25		
	Fixing pin, for mounting plates  ② black 890-601 250 ③ black 770-601 250			Fixing pin, for mounting plates  ② black 890-601 250 ③ black 770-601 250		
	Lockout cap, for socket, separable, 12-pole  black 770-201 100 white 770-221 100			Lockout cap, for socket, separable, 12-pole  black 770-201 100 white 770-221 100		
	Lockout cap, for plug, separable, 5-pole  yellow 770-360 100			Lockout cap, for plug, separable, 5-pole  yellow 770-360 100		



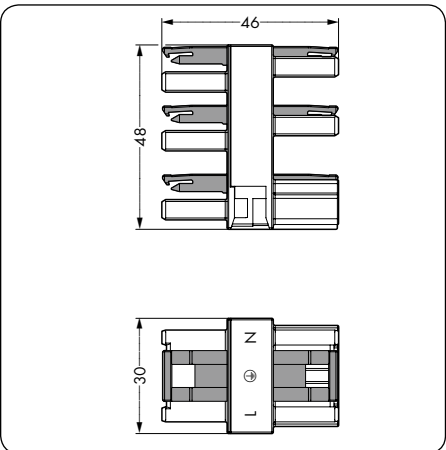
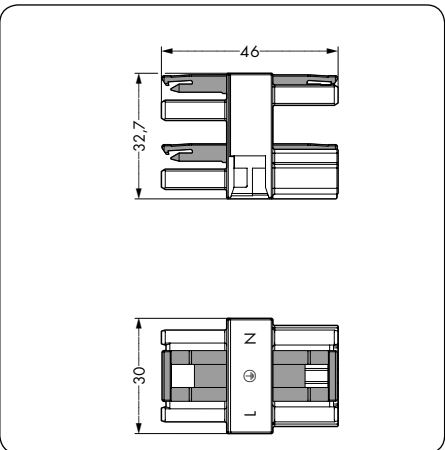
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness

③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

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

For coding information, see pages 224 to 226.  
 Fire load data available upon request.

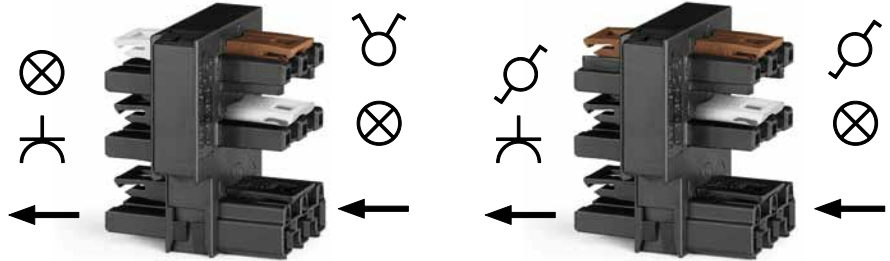












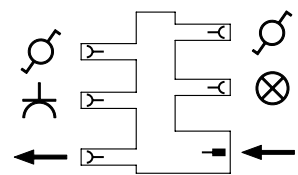
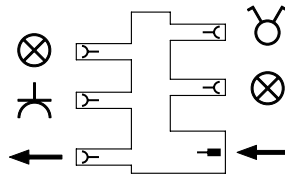
WINSTA® - Perfectly plugged!

## Distribution Connectors, 3-Pole

	<p>250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p>① Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Distribution connectors, pluggable</b>	Distribution connector for single-pole switch and series circuits, 1 x plug, coding A, LL ④ black/white 2 x socket, coding A, LL ④ black/white			Distribution connector for single-pole switch and two-way circuits, 1 x plug, coding A, LL ④ black/white 2 x socket, coding A, LL ④ black/white		
	2 x socket, coding A (lighting fixtures), LL ④ white/black 1 x socket, coding S (switch), LL ④ brown			2 x socket, coding A (lighting fixtures), LL ④ white/black 1 x socket, coding S (switch), LL ④ brown		
	● black	770-637	10	● black	770-638	10
	○ white	770-687	10	○ white	770-688	10
	<b>Item-Specific Accessories</b>					
	<b>Mounting plate, for distribution connectors</b>			<b>Mounting plate, for distribution connectors</b>		
		black 770-623 25 white 770-673 25			black 770-623 25 white 770-673 25	
	<b>Fixing pin, for mounting plates</b>			<b>Fixing pin, for mounting plates</b>		
		② black 890-601 250 ③ black 770-601 250			② black 890-601 250 ③ black 770-601 250	
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>		
		black 770-201 100 white 770-221 100			black 770-201 100 white 770-221 100	
	<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
		yellow 770-360 100			yellow 770-360 100	



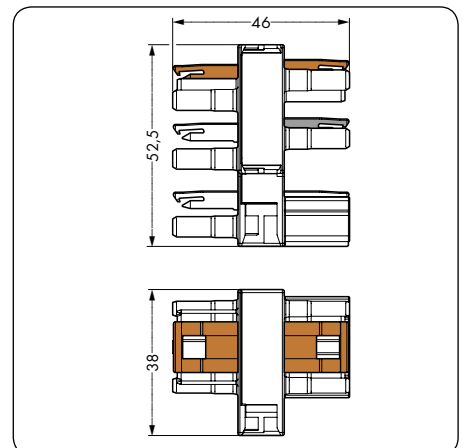
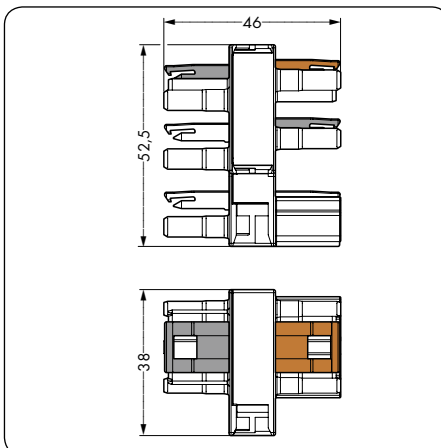
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness  
③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

④ LL = Locking lever

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.



# Shorting Plugs, 3-Pole

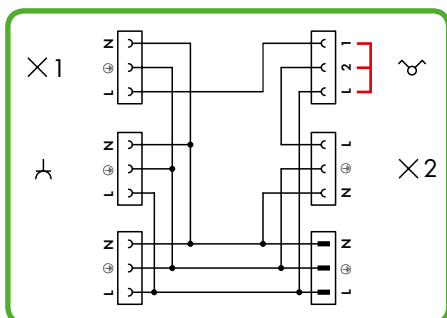
<p>250 V/4 kV/3 I<sub>N</sub> 25 A <b>Note:</b> Before finally connecting the switches, the shorting plugs may be used to switch on or off.</p>	<p>250 V/4 kV/3 I<sub>N</sub> 25 A <b>Note:</b> If this shorting plug is connected to the 770-637 distribution connector as shown below, a motion sensor can be connected instead of the switch.</p>
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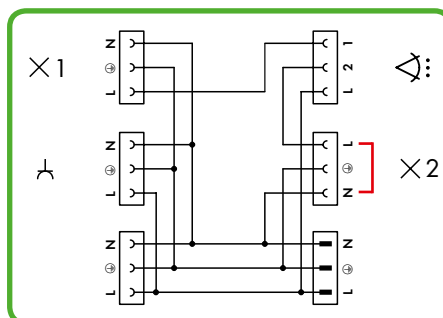
Marking	Item No.	Pack. Unit	Marking	Item No.	Pack. Unit
<b>Shorting plug,</b> brown plug with assembled strain relief housing			<b>Shorting plug, coding A,</b> black plug with assembled strain relief housing and bridge		
	770-1373/146-000	50		770-113/147-000	50
	770-1373/147-000	50			
	770-1373/148-000	50			
	770-1373/149-000	50			

Item-Specific Accessories					
<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	yellow	770-360 100		yellow	770-360 100

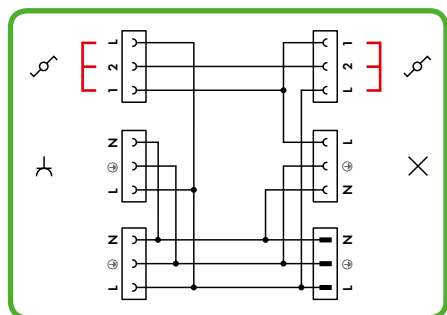
## Application Notes



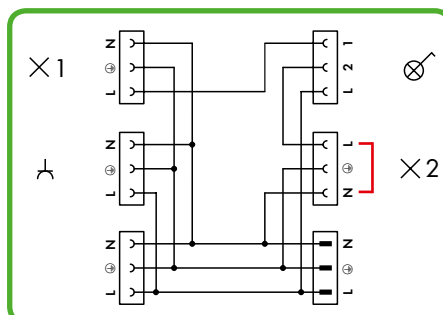
Internal circuit of 770-637 distribution connector with possible insertion position of 770-1373/14x-000 shorting plug.



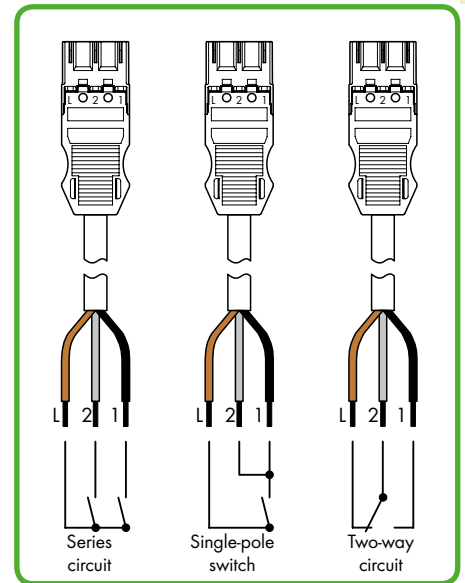
Internal circuit of 770-637 distribution connector with insertion position of 770-113/147-000 shorting plug for connecting a motion sensor.



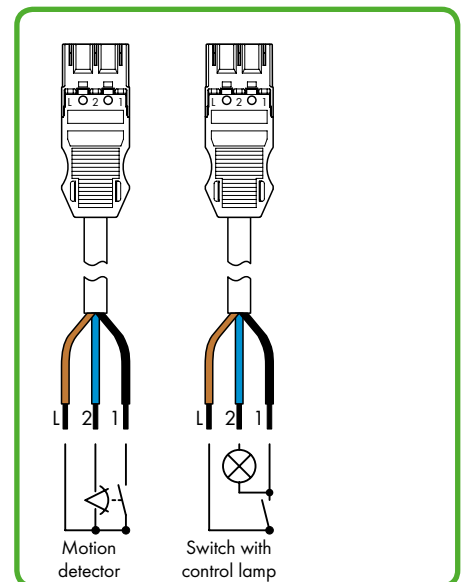
Internal circuit of 770-638 distribution connector with possible insertion positions of 770-1373/14x-000 shorting plug.



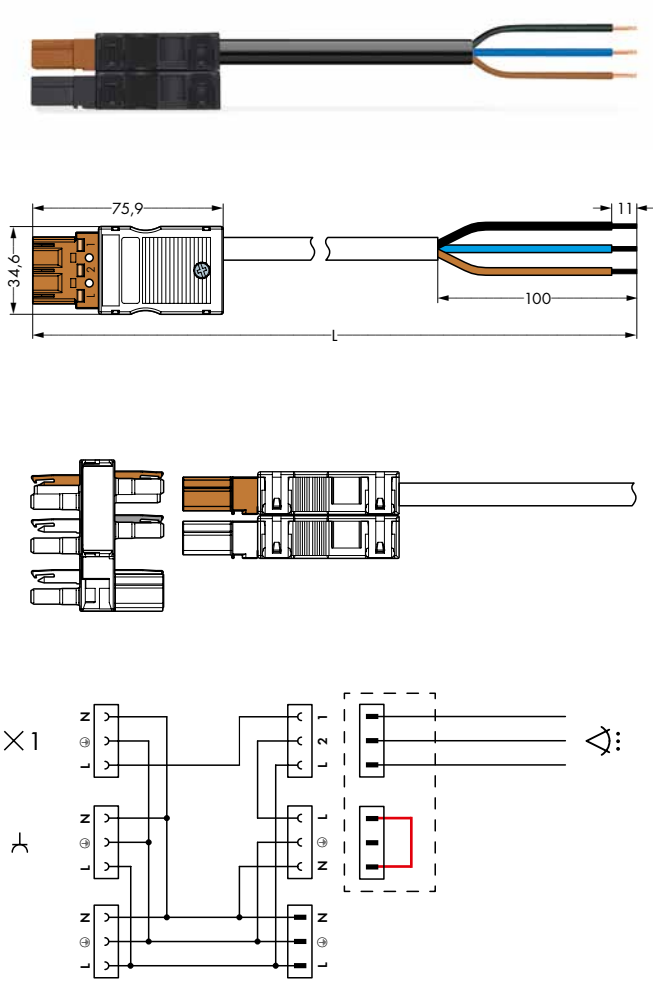
Internal circuit of 770-637 distribution connector with insertion position of 770-113/147-000 shorting plug for connecting a switch with control lamp.



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



Cable assembly with coding S for connection to 770-637 distribution connector when using 770-113/147-000 shorting plug.

	<p>PVC H05VV-F 3x1.5 halogen-free H05Z1Z1-F 3x1.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 11 mm</p> <p>① Approvals</p>
<p>Connecting cable, socket – plug</p>	<p>Length Item No. black</p>
	<p>● Coding S ● Coding A</p> <p>PVC</p> <p>3 m 771-5001/106-000 4 m 771-5001/107-000</p> <p>This cable combines a standard S-coded cable with an A-coded shorting plug. Both strain relief housings are locked together. A motion detector or switch with signal lamp can be directly connected using a cable equipped with 770-637 distribution connector.</p>





**Info**

① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications. For other cables, please contact factory.

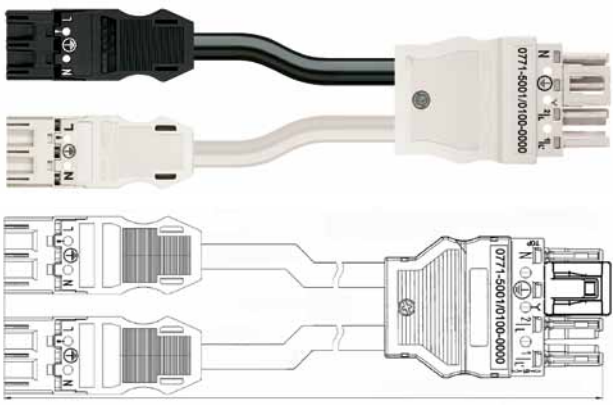
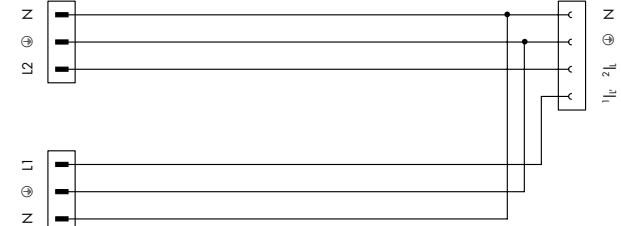
● black Coding A (L ⊕ N)  
● brown Coding S (L 2 1)


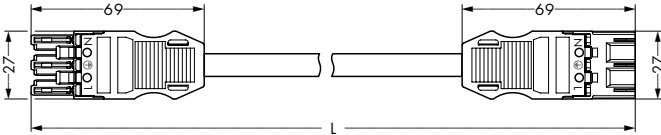

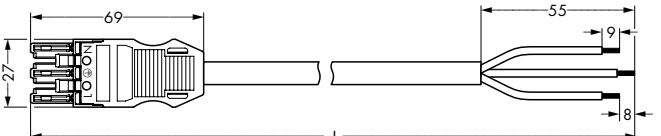

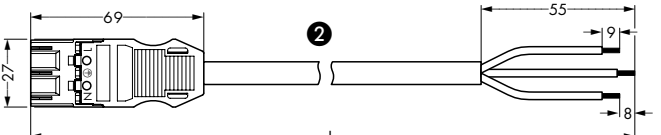
For coding information, see pages 224 to 226.  
Fire load data available upon request.

**Accessories**

	<p>manually operated</p> <table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100 (4x25)</td> </tr> </table>	black	770-101	100 (4x25)	white	770-121	100 (4x25)
black	770-101	100 (4x25)					
white	770-121	100 (4x25)					
	<p>tool operated</p> <table border="1"> <tr> <td>black</td> <td>770-111</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-131</td> <td>100 (4x25)</td> </tr> </table>	black	770-111	100 (4x25)	white	770-131	100 (4x25)
black	770-111	100 (4x25)					
white	770-131	100 (4x25)					
	<p>lockout cap, for socket, separable, 12-pole</p> <table border="1"> <tr> <td>black</td> <td>770-201</td> <td>100</td> </tr> <tr> <td>white</td> <td>770-221</td> <td>100</td> </tr> </table>	black	770-201	100	white	770-221	100
black	770-201	100					
white	770-221	100					
	<p>lockout cap, for plug, separable, 5-pole</p> <table border="1"> <tr> <td>yellow</td> <td>770-360</td> <td>100</td> </tr> </table>	yellow	770-360	100			
yellow	770-360	100					



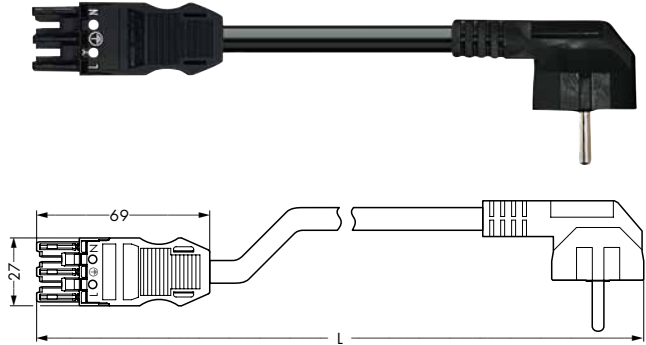
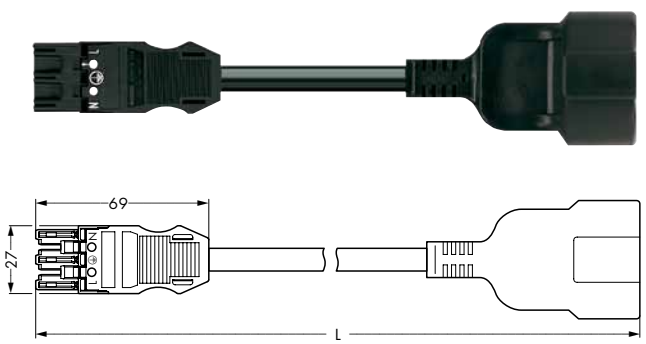
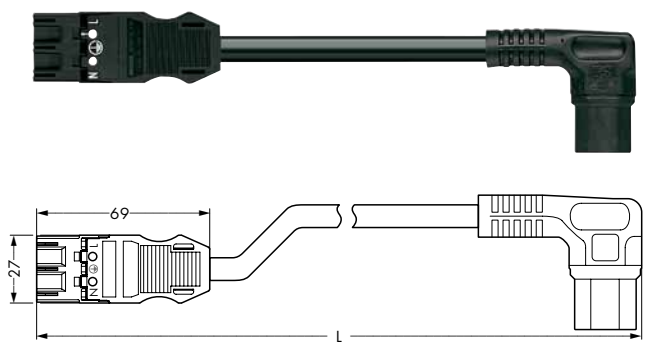
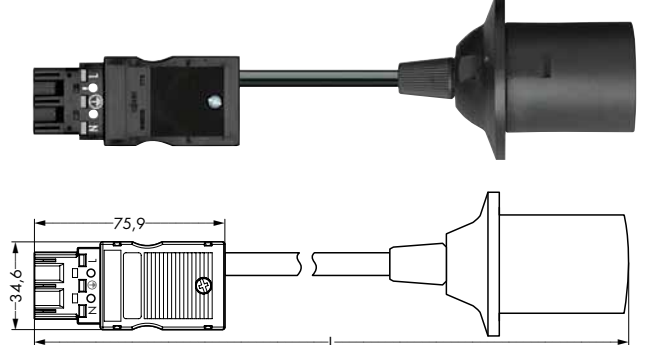
	<p>PVC H05VV-F 3x1.5 I<sub>N</sub> 16 A</p> <p>250 V/4 kV/3</p> <p>① Approvals</p>																		
<p><b>Y-cable, 1 x 4-pole, 2 x 3-pole</b></p>  <p>Black plug: Continuous phase for battery</p> <p>White plug: Light with backup power function</p>  <p>White plug: Switched phase for the light ("on/off")</p>	<p>Length Item No. black</p> <p>● ○ Coding A</p> <p>0.6 m 771-5001/100-000</p> <p>This cable connects lights with backup power function (AkkuPack). The black 3-pole plug connects the continuous phase for the battery, while the white 3-pole plug connects the switched phase for the light ("on/off"). The white 4-pole socket can be directly plugged into the light.</p>																		
	<p><b>Accessories</b></p> <p><b>Locking lever, for "flying leads,"</b> manually operated</p> <table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100 (4x25)</td> </tr> </table> <p><b>Locking lever, for "flying leads,"</b> tool operated</p> <table border="1"> <tr> <td>black</td> <td>770-111</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-131</td> <td>100 (4x25)</td> </tr> </table> <p><b>Lockout cap, for plug, separable, 5-pole</b></p> <table border="1"> <tr> <td>yellow</td> <td>770-360</td> <td>100</td> </tr> </table> <p><b>Coding pin, for plug (A and B coding)</b></p> <table border="1"> <tr> <td>gray</td> <td>770-401</td> <td>100</td> </tr> </table>	black	770-101	100 (4x25)	white	770-121	100 (4x25)	black	770-111	100 (4x25)	white	770-131	100 (4x25)	yellow	770-360	100	gray	770-401	100
black	770-101	100 (4x25)																	
white	770-121	100 (4x25)																	
black	770-111	100 (4x25)																	
white	770-131	100 (4x25)																	
yellow	770-360	100																	
gray	770-401	100																	

		PVC	H05VV-F 3G1.5									
		halogen-free	H05Z1Z1-F 3G1.5									
		250 V/4 kV/3 I <sub>N</sub> 16 A										
		Conductor ends, bonded: 9 mm/16 mm										
		① Approvals										
<b>Interconnecting cable, socket - plug</b>		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						
		5 m	771-9993/006-501	.../006-502	771-9993/016-501	.../016-502						
		7 m	771-9993/006-701	.../006-702	771-9993/016-701	.../016-702						
<b>Connecting cable, socket - free end</b>		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						
		5 m	771-9993/106-501	.../106-502	771-9993/116-501	.../116-502						
		7 m	771-9993/106-701	.../106-702	771-9993/116-701	.../116-702						
<b>Connecting cable, plug - free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white						
		● ○ Coding A ②										
		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						
		5 m	771-9993/206-501	.../206-502	771-9993/216-501	.../216-502						
		7 m	771-9993/206-701	.../206-702	771-9993/216-701	.../216-702						
		1 m	771-9993/3206-101		771-9993/3216-101							
		2 m	771-9993/3206-201		771-9993/3216-201							
		3 m	771-9993/3206-301		771-9993/3216-301							
		5 m	771-9993/3206-501		771-9993/3216-501							
		7 m	771-9993/3206-701		771-9993/3216-701							
<b>Info</b>		<b>Accessories</b>										
<p>① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>For other cables, please contact factory.</p> <p>● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N) ● red Coding P (L ⊕ N)</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>		<p><b>Locking lever, for "flying leads,"</b></p> <p>manually operated</p> <table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100 (4x25)</td> </tr> </table>					black	770-101	100 (4x25)	white	770-121	100 (4x25)
		black	770-101	100 (4x25)								
		white	770-121	100 (4x25)								
		<p><b>Locking lever, for "flying leads,"</b></p> <p>tool operated</p> <table border="1"> <tr> <td>black</td> <td>770-111</td> <td>100 (4x25)</td> </tr> <tr> <td>white</td> <td>770-131</td> <td>100 (4x25)</td> </tr> </table>					black	770-111	100 (4x25)	white	770-131	100 (4x25)
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		white	770-131	100 (4x25)								
		<p><b>Lockout cap, for socket, separable, 12-pole</b></p> <table border="1"> <tr> <td>black</td> <td>770-201</td> <td>100</td> </tr> <tr> <td>white</td> <td>770-221</td> <td>100</td> </tr> </table>					black	770-201	100	white	770-221	100
		black	770-201	100								
		white	770-221	100								
		<p><b>Lockout cap, for plug, separable, 5-pole</b></p> <table border="1"> <tr> <td>yellow</td> <td>770-360</td> <td>100</td> </tr> </table>					yellow	770-360	100			
yellow	770-360	100										

		<p>PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding P	PVC halogen-free			
		1 m	771-9973/006-101	.../006-102	771-9973/016-101	.../016-102
		2 m	771-9973/006-201	.../006-202	771-9973/016-201	.../016-202
		3 m	771-9973/006-301	.../006-302	771-9973/016-301	.../016-302
		5 m	771-9973/006-501	.../006-502	771-9973/016-501	.../016-502
		7 m	771-9973/006-701	.../006-702	771-9973/016-701	.../016-702
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding P	PVC halogen-free			
		1 m	771-9973/106-101	.../106-102	771-9973/116-101	.../116-102
		2 m	771-9973/106-201	.../106-202	771-9973/116-201	.../116-202
		3 m	771-9973/106-301	.../106-302	771-9973/116-301	.../116-302
		5 m	771-9973/106-501	.../106-502	771-9973/116-501	.../116-502
		7 m	771-9973/106-701	.../106-702	771-9973/116-701	.../116-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding P	PVC halogen-free			
		1 m	771-9973/206-101	.../206-102	771-9973/216-101	.../216-102
		2 m	771-9973/206-201	.../206-202	771-9973/216-201	.../216-202
		3 m	771-9973/206-301	.../206-302	771-9973/216-301	.../216-302
		5 m	771-9973/206-501	.../206-502	771-9973/216-501	.../216-502
		7 m	771-9973/206-701	.../206-702	771-9973/216-701	.../216-702
		<b>Accessories</b>				
		<b>Locking lever, for "flying leads,"</b>				
		manually operated				
			black	770-101	100	(4x25)
			white	770-121	100	(4x25)
		<b>Locking lever, for "flying leads,"</b>				
		tool operated				
			black	770-111	100	(4x25)
			white	770-131	100	(4x25)
		<b>Lockout cap, for socket, separable, 12-pole</b>				
			black	770-201	100	
			white	770-221	100	
<b>Coding pin, for plug (A and B coding)</b>		<b>Lockout cap, for plug, separable, 5-pole</b>				
		gray	770-401	100		
		yellow				
			770-360	100		

		PVC H05VV-F 3x1.5 halogen-free H05Z1Z1-F 3x1.5  250 V/4 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 11 mm ① Approvals
<b>Interconnecting cable, socket – plug</b>		Length Item No. black Item No. black ● Coding S PVC halogen-free 1 m 771-9973/006-105 771-9973/016-105 2 m 771-9973/006-205 771-9973/016-205 3 m 771-9973/006-305 771-9973/016-305 5 m 771-9973/006-505 771-9973/016-505 7 m 771-9973/006-705 771-9973/016-705
<b>Connecting cable, plug – free end ②</b>		Length Item No. black Item No. black ● Coding S for distribution connectors (series and two-way circuits) PVC halogen-free 1 m 771-9973/206-105 771-9973/216-105 2 m 771-9973/206-205 771-9973/216-205 3 m 771-9973/206-305 771-9973/216-305 5 m 771-9973/206-505 771-9973/216-505 7 m 771-9973/206-705 771-9973/216-705
<b>Connecting cable, plug – free end ②</b>		Length Item No. black Item No. black ● Coding S for distribution connector (motion sensor) PVC halogen-free 1 m 771-9973/206-104 771-9973/216-104 2 m 771-9973/206-204 771-9973/216-204 3 m 771-9973/206-304 771-9973/216-304 5 m 771-9973/206-504 771-9973/216-504 7 m 771-9973/206-704 771-9973/216-704
<b>Info</b>		<b>Accessories</b>
① For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications. For other cables, please contact factory.		Locking lever, for “flying leads,” manually operated black 770-101 100 (4x25) white 770-121 100 (4x25)
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)		Locking lever, for “flying leads,” tool operated black 770-111 100 (4x25) white 770-131 100 (4x25)
For coding information, see pages 224 to 226. Fire load data available upon request.		Lockout cap, for socket, separable, 12-pole black 770-201 100 white 770-221 100
		Lockout cap, for plug, separable, 5-pole yellow 770-360 100

# Cable Assemblies 3 x 1.5 mm<sup>2</sup> / 3 x 1 mm<sup>2</sup> / 3 x 0.75 mm<sup>2</sup>

	<p>PVC H05VV-F 3x1.5 I<sub>N</sub> 16 A          H05VV-F 3G1.0 I<sub>N</sub> 10 A ③          H05VV-F 3G0.75 I<sub>N</sub> 4 A ④</p> <p>250 V/4 kV/3</p> <p>① Approvals</p>
<p>Connecting cable, socket – SCHUKO plug, angled</p>	<p>Length Item No. black white</p>
	<p>● ○ Coding A          PVC</p> <p>1 m 771-9993/306-101 .../306-102          2 m 771-9993/306-201 .../306-202          3 m 771-9993/306-301 .../306-302</p>
<p>Connecting cable, plug – SCHUKO coupler</p>	<p>Length Item No. black white</p>
	<p>● ○ Coding A          PVC</p> <p>1 m 771-9993/406-101 .../406-102          2 m 771-9993/406-201 .../406-202          3 m 771-9993/406-301 .../406-302</p>
<p>Interconnecting cable, plug – cold equipment coupling, angled ③</p>	<p>Length Item No. black white</p>
	<p>● ○ Coding A          PVC</p> <p>1 m 771-9993/805-101 .../805-102          2 m 771-9993/805-201 .../805-202          3 m 771-9993/805-301 .../805-302</p>
<p>Plug – lamp socket E 27 ④</p>	<p>Length Item No. black</p>
	<p>● ○ Coding A          e.g., for temporary construction site lighting</p> <p>0.5m 771-8993/1004-051</p> <p>For other lengths, please contact factory.</p>

		PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5  250 V/4 kV/3 I <sub>N</sub> 20 A  Conductor ends, bonded: 9 mm/16 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		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
		5 m	771-9993/007-501	.../007-502	771-9993/017-501	.../017-502
		7 m	771-9993/007-701	.../007-702	771-9993/017-701	.../017-702
<b>Connecting cable, socket – free end</b>		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
		5 m	771-9993/107-501	.../107-502	771-9993/117-501	.../117-502
		7 m	771-9993/107-701	.../107-702	771-9993/117-701	.../117-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A ② 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
		5 m	771-9993/207-501	.../207-502	771-9993/217-501	.../217-502
		7 m	771-9993/207-701	.../207-702	771-9993/217-701	.../217-702
		1 m	Coding A ③ (for installation of switches and outlets)		771-9993/3207-101	771-9993/3217-101
		2 m	Coding A ③		771-9993/3207-201	771-9993/3217-201
		3 m	Coding A ③		771-9993/3207-301	771-9993/3217-301
		5 m	Coding A ③		771-9993/3207-501	771-9993/3217-501
		7 m	Coding A ③		771-9993/3207-701	771-9993/3217-701

**Info**

① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.

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

For coding information, see pages 224 to 226.  
 Fire load data available upon request.

**Accessories**

<b>Locking lever, for "flying leads,"</b>			
	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)
<b>Locking lever, for "flying leads,"</b>			
	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)
<b>Lockout cap, for socket, separable, 12-pole</b>			
	black	770-201	100
	white	770-221	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
	yellow	770-360	100

		<p>PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5</p> <p>250 V/4 kV/3 I<sub>N</sub> 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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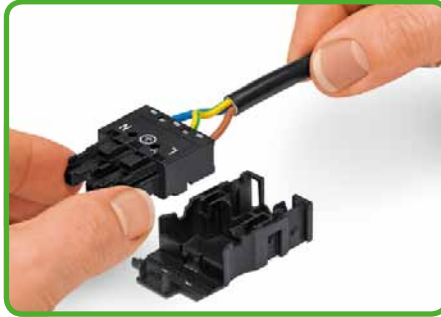


# 3 WINSTA® MIDI, IP 2XD

98 for easily accessible areas



To terminate fine-stranded conductors, open clamping unit via 2.5 mm screwdriver and insert stripped conductor until it hits backstop. Solid conductors can be terminated by simply pushing them in.



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

## Strain relief installation

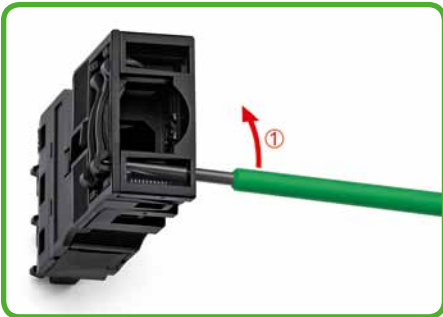


Prepare strain relief housing by snapping together upper and bottom part.

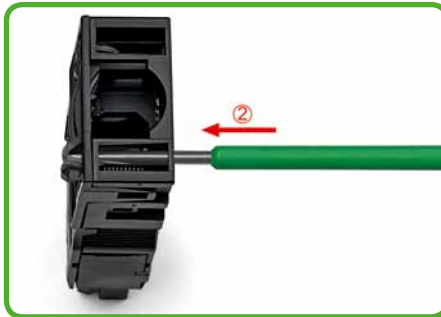


Push down strain relief clamp via 2.5 mm screwdriver alternately on both sides.

## Strain relief removal



First, unlock strain relief clamp via 2.5 mm screwdriver from the bottom.



Then, push strain relief clamp via 2.5 mm screwdriver out of the locking position.



Finally, unlock strain relief housing via 2.5 mm screwdriver on both sides.





# 3 WINSTA® MIDI, IP 2XD

for easily accessible areas

100

## Cable Assemblies 3 x 1.5 mm<sup>2</sup> IP 2XD

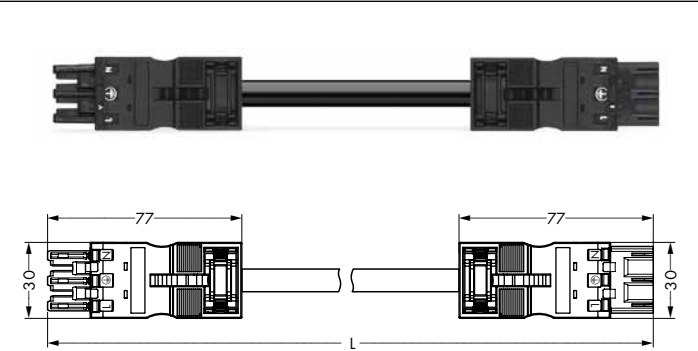
PVC H05VV-F 3G1.5  
halogen-free H05Z1Z1-F 3G1.5

250 V/4 kV/3 I<sub>N</sub> 16 A

Conductor ends, bonded: 9 mm

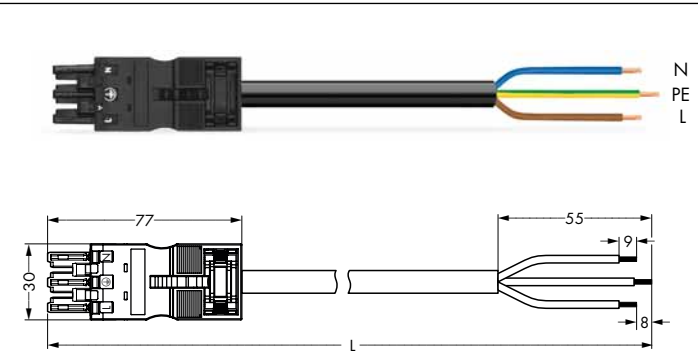
### Approvals

#### Interconnecting cable, socket – plug



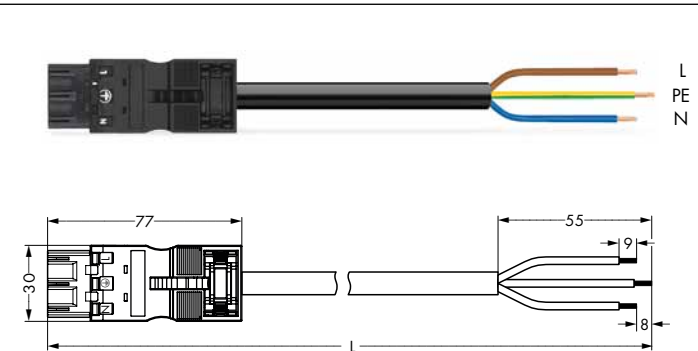
Length	Item No. black	Item No. white	Item No. black	Item No. white
● ○ Coding A				
PVC		halogen-free		
1 m	771-6993/006-101	.../006-102	771-6993/016-101	.../016-102
2 m	771-6993/006-201	.../006-202	771-6993/016-201	.../016-202
3 m	771-6993/006-301	.../006-302	771-6993/016-301	.../016-302
5 m	771-6993/006-501	.../006-502	771-6993/016-501	.../016-502
7 m	771-6993/006-701	.../006-702	771-6993/016-701	.../016-702

#### Connecting cable, socket – free end



Length	Item No. black	Item No. white	Item No. black	Item No. white
● ○ Coding A				
PVC		halogen-free		
1 m	771-6993/106-101	.../106-102	771-6993/116-101	.../116-102
2 m	771-6993/106-201	.../106-202	771-6993/116-201	.../116-202
3 m	771-6993/106-301	.../106-302	771-6993/116-301	.../116-302
5 m	771-6993/106-501	.../106-502	771-6993/116-501	.../116-502
7 m	771-6993/106-701	.../106-702	771-6993/116-701	.../116-702

#### Connecting cable, plug – free end



Length	Item No. black	Item No. white	Item No. black	Item No. white
● ○ Coding A				
PVC		halogen-free		
1 m	771-6993/206-101	.../206-102	771-6993/216-101	.../216-102
2 m	771-6993/206-201	.../206-202	771-6993/216-201	.../216-202
3 m	771-6993/206-301	.../206-302	771-6993/216-301	.../216-302
5 m	771-6993/206-501	.../206-502	771-6993/216-501	.../216-502
7 m	771-6993/206-701	.../206-702	771-6993/216-701	.../216-702

#### Info

#### Accessories

① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.

#### Locking lever, for "flying leads,"

	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)

#### Locking lever, for "flying leads,"

	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)

#### Lockout cap, for socket, separable, 12-pole

	black	770-201	100
	white	770-221	100

#### Lockout cap, for plug, separable, 5-pole

	yellow	770-360	100
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# Cable Assemblies 3 x 2.5 mm<sup>2</sup> IP 2XD

		PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5  250 V/4 kV/3 I <sub>N</sub> 20 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	771-6993/007-101	.../007-102	771-6993/017-101	.../017-102
		2 m	771-6993/007-201	.../007-202	771-6993/017-201	.../017-202
		3 m	771-6993/007-301	.../007-302	771-6993/017-301	.../017-302
		5 m	771-6993/007-501	.../007-502	771-6993/017-501	.../017-502
		7 m	771-6993/007-701	.../007-702	771-6993/017-701	.../017-702
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	771-6993/107-101	.../107-102	771-6993/117-101	.../117-102
		2 m	771-6993/107-201	.../107-202	771-6993/117-201	.../117-202
		3 m	771-6993/107-301	.../107-302	771-6993/117-301	.../117-302
		5 m	771-6993/107-501	.../107-502	771-6993/117-501	.../117-502
		7 m	771-6993/107-701	.../107-702	771-6993/117-701	.../117-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A ② PVC halogen-free				
		1 m	771-6993/207-101	.../207-102	771-6993/217-101	.../217-102
		2 m	771-6993/207-201	.../207-202	771-6993/217-201	.../217-202
		3 m	771-6993/207-301	.../207-302	771-6993/217-301	.../217-302
		5 m	771-6993/207-501	.../207-502	771-6993/217-501	.../217-502
		7 m	771-6993/207-701	.../207-702	771-6993/217-701	.../217-702
		<b>Accessories</b>				
		<b>Locking lever, for "flying leads,"</b>				
		manually operated				
			black	770-101	100	(4x25)
			white	770-121	100	(4x25)
		<b>Locking lever, for "flying leads,"</b>				
		tool operated				
			black	770-111	100	(4x25)
			white	770-131	100	(4x25)
		<b>Lockout cap, for socket, separable, 12-pole</b>				
			black	770-201	100	
			white	770-221	100	
		<b>Lockout cap, for plug, separable, 5-pole</b>				
			yellow	770-360	100	

## Sockets and Plugs, 4-Pole

<p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 2 cables, 9 – 13 mm diameter ❸			Plug with strain relief housing, for 2 cables, 9 – 13 mm diameter ❸		
	● black	770-104	25	● black	770-114	25
	○ white	770-124	25	○ white	770-134	25

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	

Accessories, 770 Series						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
	Marker, for manual marking					
		white 770-450 50				

Info	Dimensions
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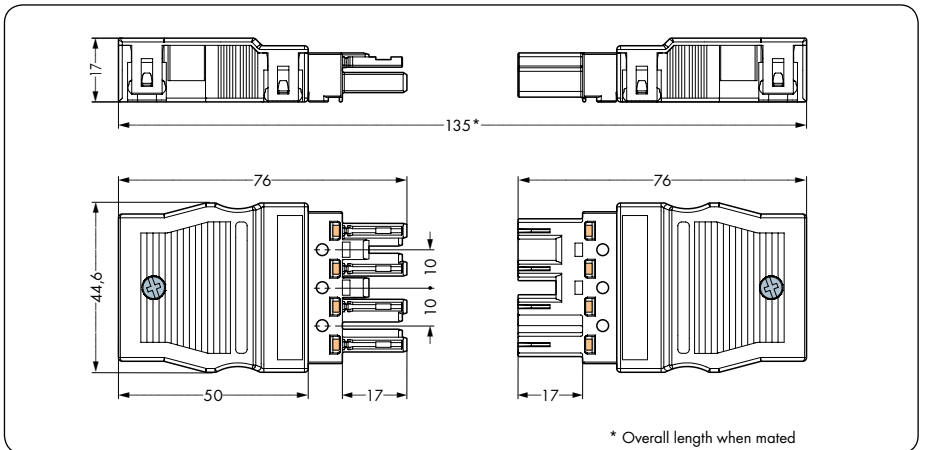
❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

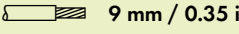
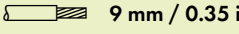
❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

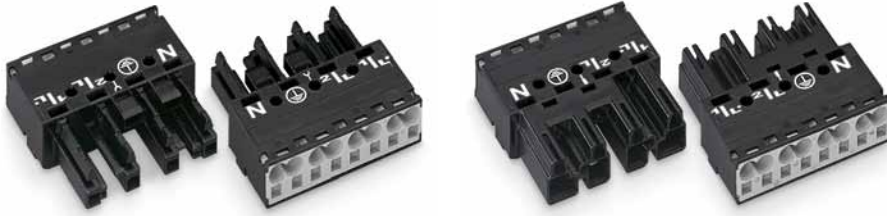
❸ For more strain relief housings, see page 104.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.



2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>		
● black	770-204	50	● black	770-214	50
○ white	770-224	50	○ white	770-234	50
For “Clean Earth” applications (loading up to 32A):			For “Clean Earth” applications (loading up to 32A):		
● green	770-1324	50	● green	770-1334	50






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

Item-Specific Accessories		
<b>Lockout cap, for socket, separable, 12-pole</b>		<b>Lockout cap, for plug, separable, 5-pole</b>
	black 770-201 100 white 770-221 100	 yellow 770-360 100
<b>Coding pin, for plug (A and B coding)</b>		
	 gray 770-401 100	



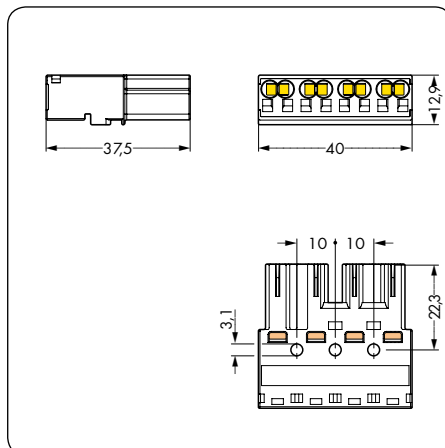
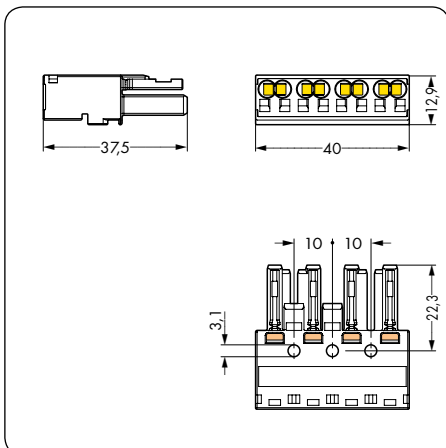
Locking lever, manually operated:  
1.) Press on locking lever.  
2.) Pull apart the connectors.  
(Example shows 3-pole connectors)

Accessories, 770 Series		
<b>Locking lever, for “flying leads,” manually operated</b>		<b>Locking lever, for “flying leads,” tool operated</b>
	black 770-101 100 (4x25) white 770-121 100 (4x25)	 black 770-111 100 (4x25) white 770-131 100 (4x25)
<b>Marker, for manual marking</b>		
	white 770-450 50	



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

**Dimensions**



## Strain Relief Housings, 4-Pole, for Different Cable Diameters

	Snap-on type strain relief housings for: - 4-pole sockets - 4-pole plugs  <b>1 Approvals</b>	Snap-on type strain relief housings for: - 4-pole sockets - 4-pole plugs  <b>1 Approvals</b>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 2 cables, 5 - 9 mm diameter <b>2</b>			Strain relief housing, for 2 cables, 9 - 13 mm diameter <b>2</b>		
	black	770-504/023-000	50	black	770-504	50
	white	770-514/023-000	50	white	770-514	50

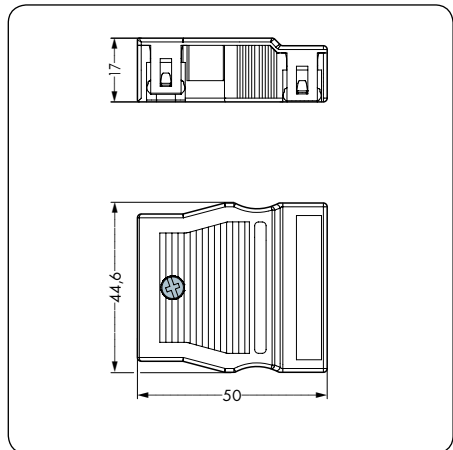
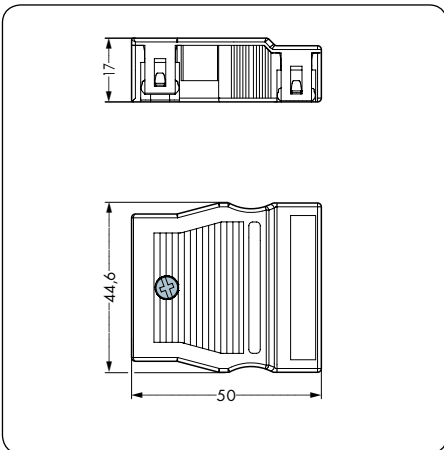
Item-Specific Accessories		
	Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333100</b> Marking area: 38 x 6.5 mm	Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333 100</b> Marking area: 38 x 6.5 mm

Info	Dimensions
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**1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

**2** For H05VV and NYM cables  
For other cables, please contact factory.

Fire load data available upon request.





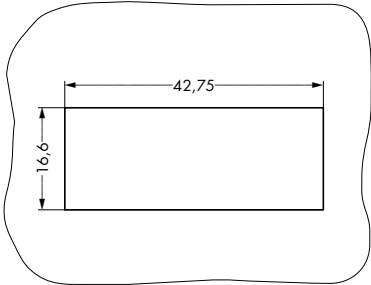


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## Snap-In Sockets and Plugs, 4-Pole

Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A	2 x AWG 20 – 12
	 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
Pluggable connectors, snap-in device connection, 4-pole, with CAGE CLAMP®S connection	Socket			Socket with protruding interface		
	● black	770-704	100	● black	770-704/009-000	100
	○ white	770-724	100	○ white	770-724/009-000	100
	For "Clean Earth" applications (loading up to 32A):					
	● green	770-2324	100			

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for socket, separable, 12-pole		
		black 770-201 100 white 770-221 100			black 770-201 100 white 770-221 100	

Accessories, 770 Series						
	Lockout cap, for cutout, 4-pole			Lockout cap, for cutout, 4-pole		
		black 770-644 100 white 770-694 100			black 770-644 100 white 770-694 100	

Info	Dimensions
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① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

③ Direct ground contact on position PE1

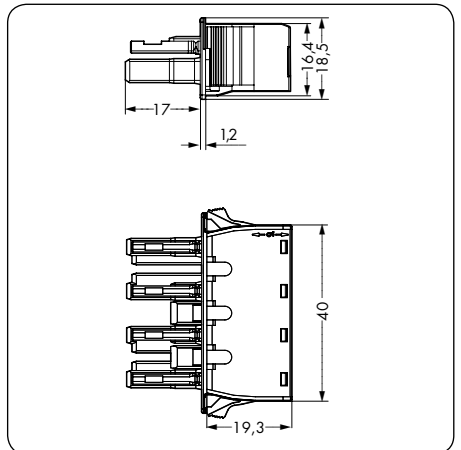
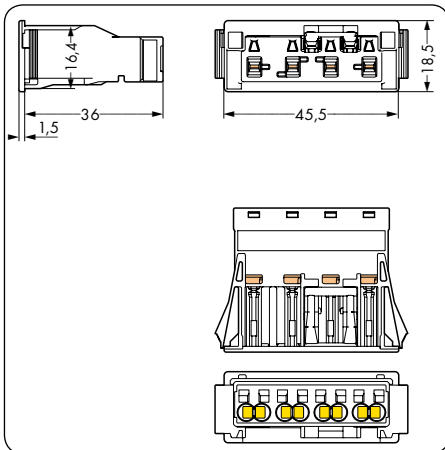
  

● black Coding A (N ⊕ 2|L 1|L)



○ white Coding A (N ⊕ 2|L 1|L)

● green Coding Q (N PE1 PE2 L)

For coding information, see pages 224 to 226.  
Fire load data available upon request.









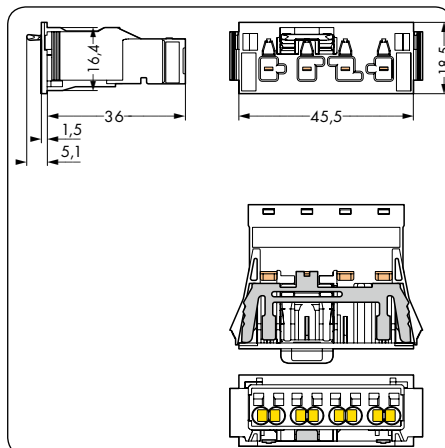
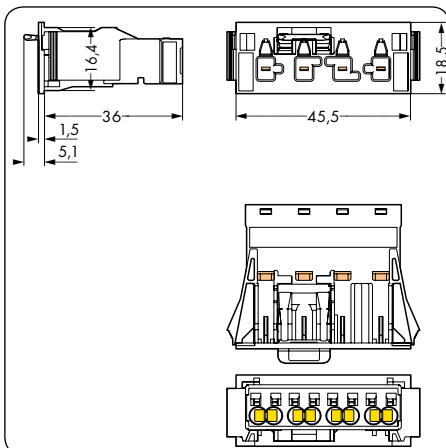


<p>2 x 0.5 – 4 mm<sup>2</sup> ①</p> <p>400 V/6 kV/3</p> <p>I<sub>N</sub> 25 A</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ①</p> <p>400 V/6 kV/3</p> <p>I<sub>N</sub> 25 A</p>	<p>2 x AWG 20 – 12</p>
<p> 9 mm / 0.35 in</p> <p>② Approvals</p>		<p> 9 mm / 0.35 in</p> <p>② Approvals</p>	



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Plug</b>			<b>Plug with direct ground contact</b>		
● black	770-714	100	● black	770-714/007-000	100
○ white	770-734	100	○ white	770-734/007-000	100
For "Clean Earth" applications (loading up to 32A):			For "Clean Earth" applications (loading up to 32A):		
● green	770-2334	100	● green	770-2334/007-000	100 ③

Item-Specific Accessories					
<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	yellow	770-360 100		yellow	770-360 100
<b>Coding pin, for plug (A and B coding)</b>			<b>Coding pin, for plug (A and B coding)</b>		
	gray	770-401 100		gray	770-401 100
Accessories, 770 Series					
<b>Lockout cap, for cutout, 4-pole</b>			<b>Lockout cap, for cutout, 4-pole</b>		
	black	770-644 100		black	770-644 100
	white	770-694 100		white	770-694 100
Dimensions					



Direct ground contact



Varnish-piercing direct ground contact. ③

Lockout cap



Seal unused cutout with lockout cap.

	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>
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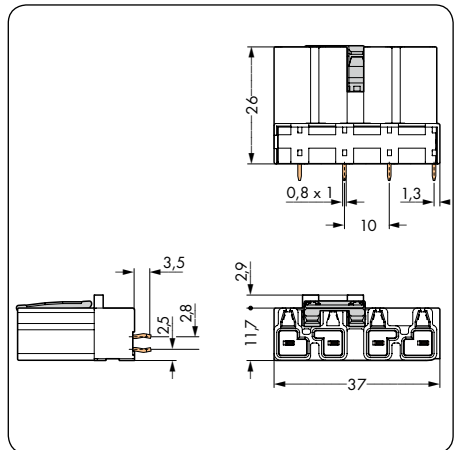
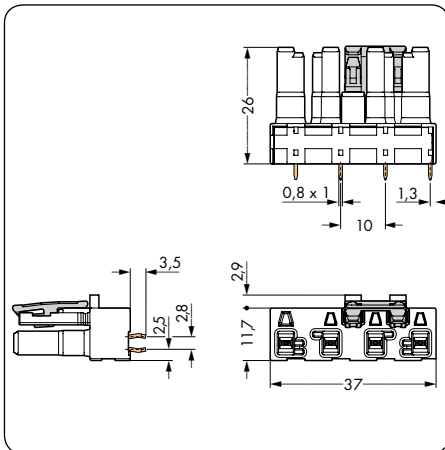
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-804	50	● black	770-814	50
	○ white	770-824	50	○ white	770-834	50
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	
<b>Accessories, 770 Series</b>						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Info</b>	<b>Dimensions</b>					

① For current load, see table on page 109.

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.



400 V/6 kV/3 $I_N$ 25 A ①  ② Approvals	400 V/6 kV/3 $I_N$ 25 A ①  ② Approvals
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① Nominal current depends on PCB track dimensions

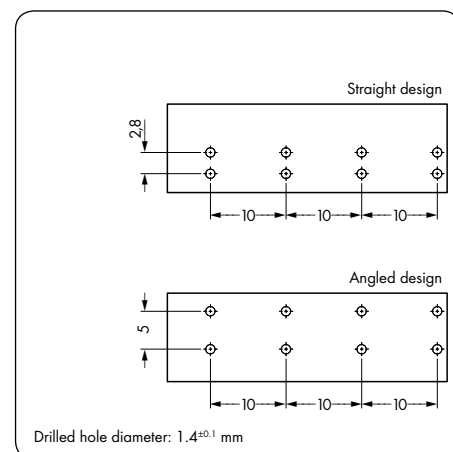
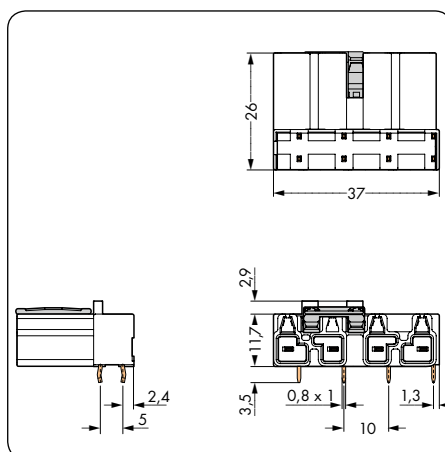
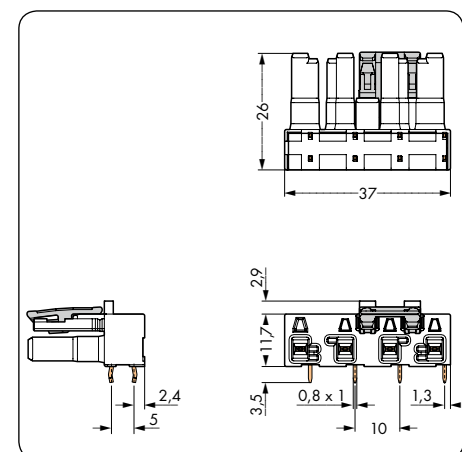
Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm <sup>2</sup>

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
● black	770-804/011-000	50	● black	770-814/011-000	50
○ white	770-824/011-000	50	○ white	770-834/011-000	50

Item-Specific Accessories					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black	770-201 100		yellow	770-360 100
	white	770-221 100			
<b>Coding pin, for plug (A and B coding)</b>					
				gray	770-401 100

Accessories, 770 Series					
<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black	770-101 100 (4x25)		black	770-111 100 (4x25)
	white	770-121 100 (4x25)		white	770-131 100 (4x25)

Dimensions	Hole patterns
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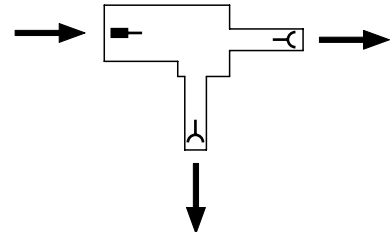
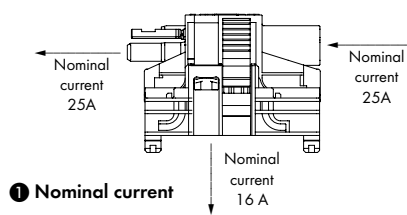
	250 V/4 kV/3 $I_N$ 25 A (16 A) ①  ② Approvals	400 V/6 kV/3 $I_N$ 25 A  ② Approvals
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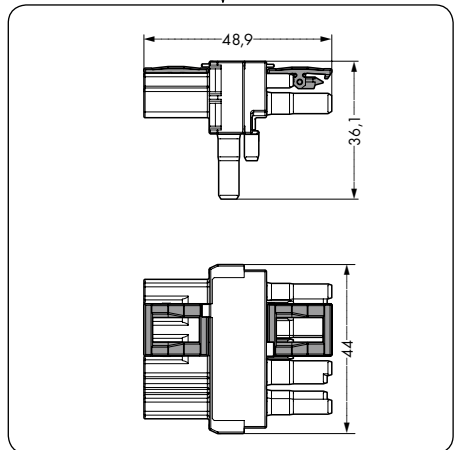
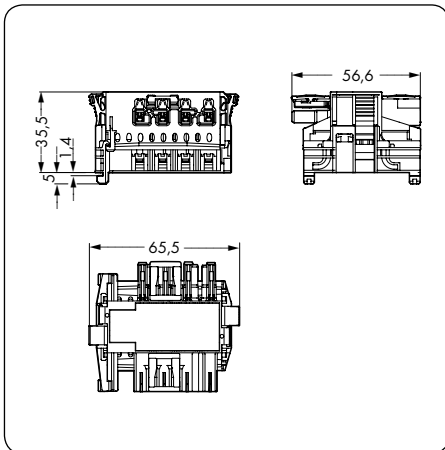
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connector, T-distribution connectors				T-distribution connector, 1 x plug / 2 x socket		
				● black	770-626	50
	○ white	770-6224	25	○ white	770-676	50
				for "flying leads," with 3rd locking lever		
				● black	770-627	50
				○ white	770-677	50

Item-Specific Accessories						
		Lockout cap, for socket, separable, 12-pole			Lockout cap, for socket, separable, 12-pole	
		black	770-201 100		black	770-201 100
		white	770-221 100		white	770-221 100
		Lockout cap, for plug, separable, 5-pole			Lockout cap, for plug, separable, 5-pole	
		yellow	770-360 100		yellow	770-360 100

Info	Dimensions
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- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
  - ④ 6.0 mm Ø, 1 – 2.5 mm plate thickness
- black    Coding A    (N ⊕ 2|L 1|L)
- white    Coding A    (N ⊕ 2|L 1|L)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.






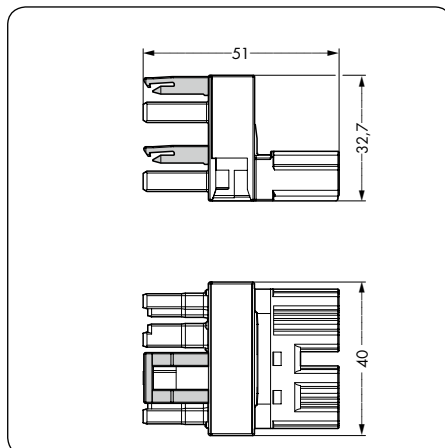
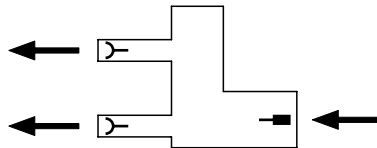
# h-Distribution Connectors, 4-Pole


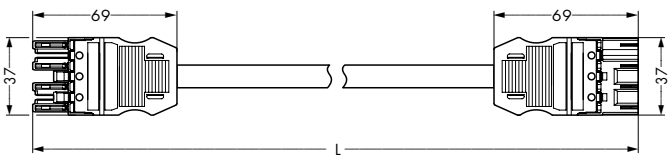

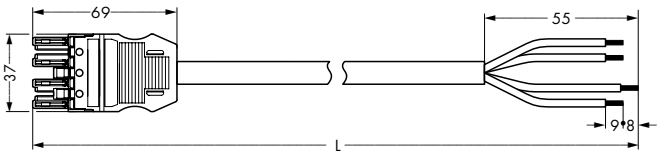

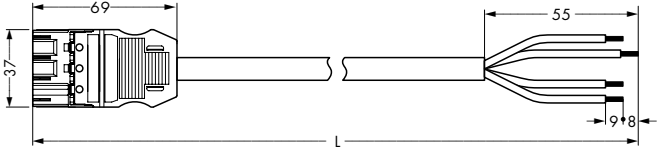
	<p>400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>② Approvals</p>	
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Description	Color	Item No.	Pack. Unit
<b>h-distribution connectors</b>	<b>h-distribution connector, unidirectional, plug / socket - socket</b>		
	● black	<b>770-944</b>	50
	○ white	<b>770-994</b>	50
	for "flying leads," with 3rd locking lever		
	● black	<b>770-945</b>	50
	○ white	<b>770-995</b>	50

Item-Specific Accessories			
	<b>Mounting plate, for distribution connectors</b>		
		black	<b>770-624</b> 25
		white	<b>770-674</b> 25
	<b>Fixing pin, for mounting plates</b>		
		③ black	<b>890-601</b> 250
		④ black	<b>770-601</b> 250
	<b>Lockout cap, for socket, separable, 12-pole</b>		
		black	<b>770-201</b> 100
		white	<b>770-221</b> 100
	<b>Dimensions</b>		



		PVC H05VV-F 4G1.5 halogen-free H05Z1 Z1-F 4G1.5  400 V/6 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 9 mm <b>1 Approvals</b>				
<b>Interconnecting cable, socket – plug</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● ○ 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
		5 m	771-9994/006-501	.../006-502	771-9994/016-501	.../016-502
		7 m	771-9994/006-701	.../006-702	771-9994/016-701	.../016-702
<b>Connecting cable, socket – free end</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● ○ 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
		5 m	771-9994/106-501	.../106-502	771-9994/116-501	.../116-502
		7 m	771-9994/106-701	.../106-702	771-9994/116-701	.../116-702
<b>Connecting cable, plug – free end</b>		<b>Length</b>	<b>Item No. black</b>	<b>Item No. white</b>	<b>Item No. black</b>	<b>Item No. white</b>
 		● ○ 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
		5 m	771-9994/206-501	.../206-502	771-9994/216-501	.../216-502
		7 m	771-9994/206-701	.../206-702	771-9994/216-701	.../216-702

**Info**





**1** For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.

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

For coding information, see pages 224 to 226.  
 Fire load data available upon request.



**Accessories**

<b>Locking lever, for "flying leads,"</b>			
	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)
<b>Locking lever, for "flying leads,"</b>			
	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)
<b>Lockout cap, for socket, separable, 12-pole</b>			
	black	770-201	100
	white	770-221	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
	yellow	770-360	100






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## Sockets and Plugs, 5-Pole

<p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p> <p>2 x 0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>
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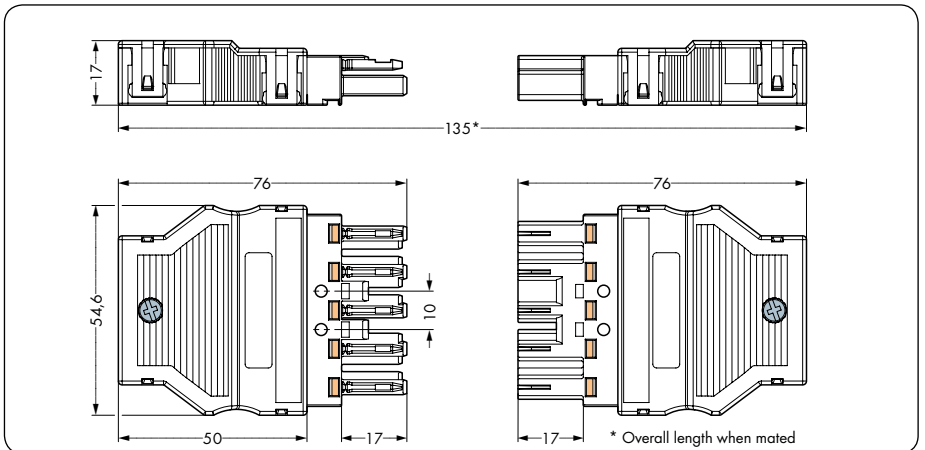
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 5-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 2 cables, 9 – 13 mm diameter ❸			Plug with strain relief housing, for 2 cables, 9 – 13 mm diameter ❸		
	● black	770-105	25	● black	770-115	25
	○ white	770-125	25	○ white	770-135	25

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	

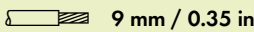
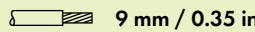
Accessories, 770 Series						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
	Marker, for manual marking					
		white 770-450 50				

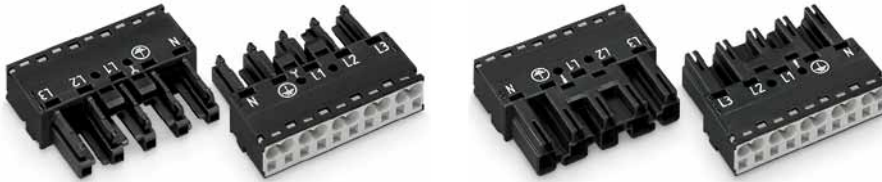
Info	Dimensions
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- ❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
  - ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ❸ For more strain relief housings, see pages 118 and 119.
- |             |          |                   |
|-------------|----------|-------------------|
| ● black     | Coding A | (N ⊕ L1 L2 L3)    |
| ○ white     | Coding A | (N ⊕ L1 L2 L3)    |
| ● blue      | Coding I | (N ⊕ L DA- DA+)   |
| ● dark gray | Coding L | (N ⊕ L N' L')     |
| ● red       | Coding P | (N ⊕ L1 L2 L3)    |
| ● green     | Coding Q | (N PE1 PE2 PE3 L) |
- For coding information, see pages 224 to 226.  
Fire load data available upon request.





2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>		
● black	770-205	50	● black	770-215	50
○ white	770-225	50	○ white	770-235	50
● blue	770-1105	50	● blue	770-1115	50
● dark gray	770-1165	50	● dark gray	770-1175	50
● red	770-1305	50	● red	770-1315	50
For “Clean Earth” applications (loading up to 32A):			For “Clean Earth” applications (loading up to 32A):		
● green	770-1325	50	● green	770-1335	50






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

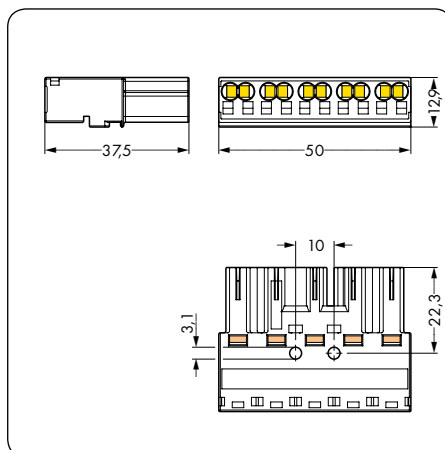
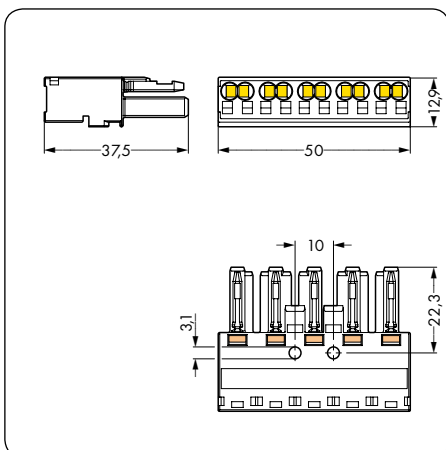
Item-Specific Accessories		
<b>Lockout cap, for socket, separable, 12-pole</b>		<b>Lockout cap, for plug, separable, 5-pole</b>
	black 770-201 100 white 770-221 100	 yellow 770-360 100
<b>Coding pin, for plug (A and B coding)</b>		
		 gray 770-401 100



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

Accessories, 770 Series		
<b>Locking lever, for “flying leads,” manually operated</b>		<b>Locking lever, for “flying leads,” tool operated</b>
	black 770-101 100 (4x25) white 770-121 100 (4x25)	 black 770-111 100 (4x25) white 770-131 100 (4x25)
<b>Marker, for manual marking</b>		
	white 770-450 50	

**Dimensions**



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

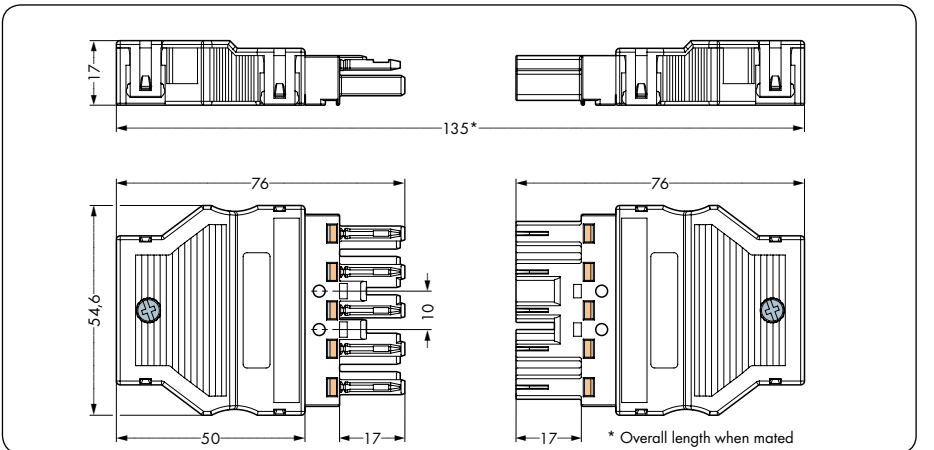
## Sockets and Plugs, 5-Pole, 1-Conductor

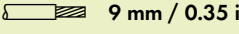
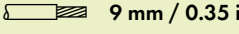
<p>0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>AWG 20 – 12</p>	<p>0.5 – 4 mm<sup>2</sup> ❶ 400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>AWG 20 – 12</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Pluggable connectors, 5-pole, 1-conductor, with CAGE CLAMP®S connection</b>	<b>Socket with strain relief housing, for 9 – 13 mm cable diameter ❸</b>			<b>Plug with strain relief housing, for 9 – 13 mm cable diameter ❸</b>		
A large funneled conductor entry simplifies termination, especially with solid conductors (e.g., NYM)	● black	<b>770-305</b>	25	● black	<b>770-315</b>	25
	○ white	<b>770-325</b>	25	○ white	<b>770-335</b>	25
<b>Item-Specific Accessories</b>						
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
		black <b>770-201</b> 100 white <b>770-221</b> 100			yellow <b>770-360</b> 100	
				<b>Coding pin, for plug (A and B coding)</b>		
					gray <b>770-401</b> 100	
<b>Accessories, 770 Series</b>						
	<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
		black <b>770-101</b> 100 (4x25) white <b>770-121</b> 100 (4x25)			black <b>770-111</b> 100 (4x25) white <b>770-131</b> 100 (4x25)	
	<b>Marker, for manual marking</b>					
		white <b>770-450</b> 50				
<b>Info</b>	<b>Dimensions</b>					

- ❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
  - ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ❸ For more strain relief housings, see pages 118 and 119.
- black Coding A (N ⊕ L1 L2 L3)  
○ white Coding A (N ⊕ L1 L2 L3)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.



0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	AWG 20 – 12	0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A   9 mm / 0.35 in ② Approvals	AWG 20 – 12
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**Note:**

All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket without strain relief housing</b>			<b>Plug without strain relief housing</b>		
● black	770-405	50	● black	770-415	50
○ white	770-425	50	○ white	770-435	50



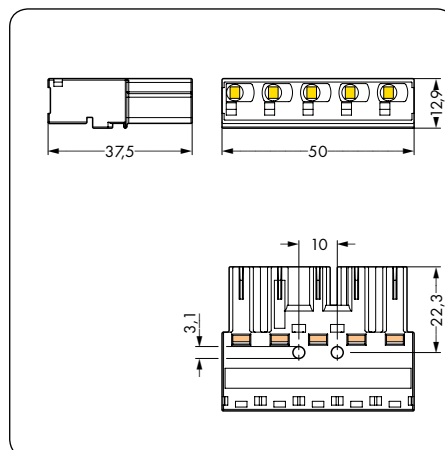
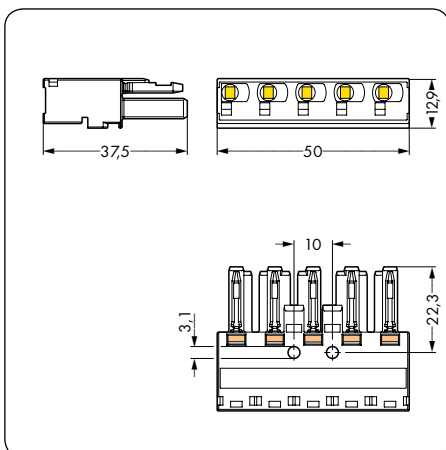
Snap on locking lever. Observe direction!  
(Example shows 3-pole plug)

Item-Specific Accessories					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201 100 white 770-221 100			yellow 770-360 100	
<b>Accessories, 770 Series</b>			<b>Accessories, 770 Series</b>		
<b>Locking lever, for “flying leads,” manually operated</b>			<b>Locking lever, for “flying leads,” tool operated</b>		
	black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Marker, for manual marking</b>					
	white 770-450 50				



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

**Dimensions**





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

## Strain Relief Housings, 5-Pole, for Different Cable Diameters

	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> <li>- 5-pole sockets</li> <li>- 5-pole plugs</li> </ul> <p><b>1</b> Approvals</p>	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> <li>- 5-pole sockets</li> <li>- 5-pole plugs</li> </ul> <p><b>1</b> Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings, 5-pole	Strain relief housing, for 2 cables, 5 - 9 mm diameter <b>2</b>			Strain relief housing, for 2 cables, 9 - 13 mm diameter <b>2</b>		
	black	770-505/023-000	25	black	770-505	25
	white	770-515/023-000	25	white	770-515	25

Item-Specific Accessories		
	<p>Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm</p> 	<p>Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm <b>210-333</b> 100 Marking area: 48 x 6.5 mm</p> 

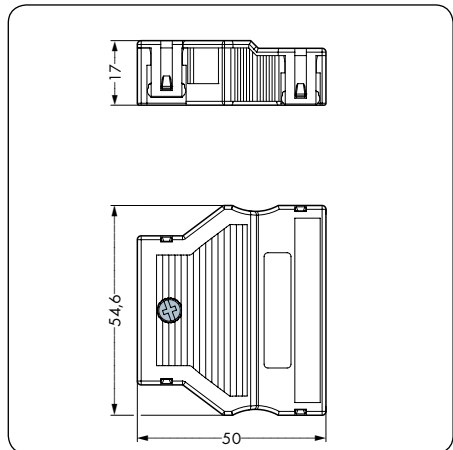
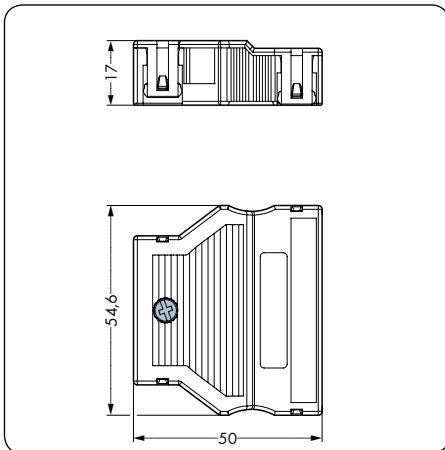
Info	Dimensions
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**1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

**2** For H05VV and NYM cables

For other cables, please contact factory.

Fire load data available upon request.

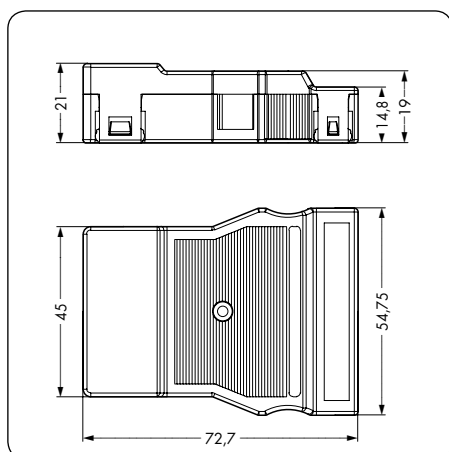


**Snap-on type strain relief housings for:**  
 - 5-pole sockets  
 - 5-pole plugs

① Approvals





Color	Item No.	Pack. Unit
<b>Strain relief housing for 4 mm<sup>2</sup> conductors,</b>		
for 1 cable, 11.5 – 16.5 mm diameter ②,		
Strip length, outer insulation: 71 mm		
black	<b>770-505/021-000</b>	25
white	<b>770-515/021-000</b>	25
<b>Marking strip, self-adhesive, on DIN A4 carrier card,</b>		
182 mm long,		
6 mm wide <b>210-333 100</b>		
Marking area: 48 x 6.5 mm		
<b>Dimensions</b>		

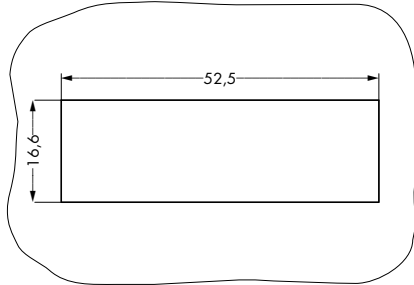


# 3 WINSTA® MIDI



## Snap-In Sockets and Plugs, 5-Pole



120

<b>Cutout dimensions</b>  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ①   2 x AWG 20 – 12 400 V/6 kV/3 I <sub>N</sub> 25 A	2 x 0.5 – 4 mm <sup>2</sup> ①   2 x AWG 20 – 12 400 V/6 kV/3 I <sub>N</sub> 25 A
	 9 mm / 0.35 in ② Approvals	 9 mm / 0.35 in ② Approvals



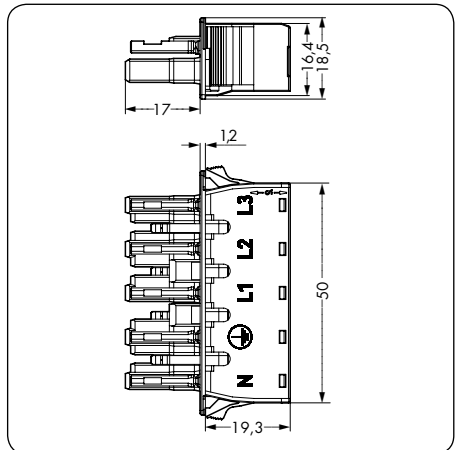
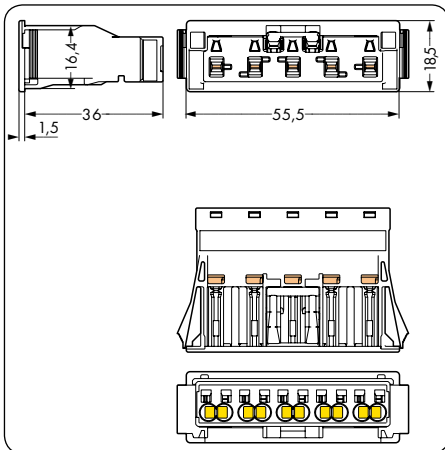
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Pluggable connectors, snap-in device connection, 5-pole, with CAGE CLAMP® S connection</b>	<b>Socket</b>			<b>Socket with protruding interface</b>		
	● black	770-705	100	● black	770-705/009-000	100
	○ white	770-725	100	○ white	770-725/009-000	100
	● blue	770-2105	100			
	● red	770-2305	100			
	For "Clean Earth" applications (loading up to 32A):					
	● green	770-2325	100			



Item-Specific Accessories						
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>		
		black 770-201	100		black 770-201	100
		white 770-221	100		white 770-221	100

Accessories, 770 Series						
	<b>Lockout cap, for cutout, 5-pole</b>			<b>Lockout cap, for cutout, 5-pole</b>		
		black 770-645	100		black 770-645	100
		white 770-695	100		white 770-695	100

Info	Dimensions
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- ① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
  - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ Direct ground contact on position PE/PE1
- |         |          |                   |
|---------|----------|-------------------|
| ● black | Coding A | (N ⊕ L1 L2 L3)    |
| ○ white | Coding A | (N ⊕ L1 L2 L3)    |
| ● blue  | Coding I | (N ⊕ L DA- DA+)   |
| ● red   | Coding P | (N ⊕ L1 L2 L3)    |
| ● green | Coding Q | (N PE1 PE2 PE3 L) |
- For coding information, see pages 224 to 226.  
Fire load data available upon request.

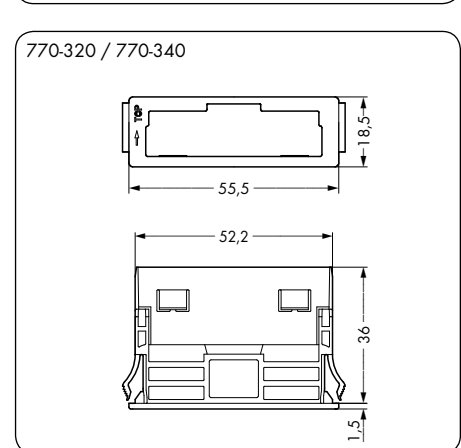
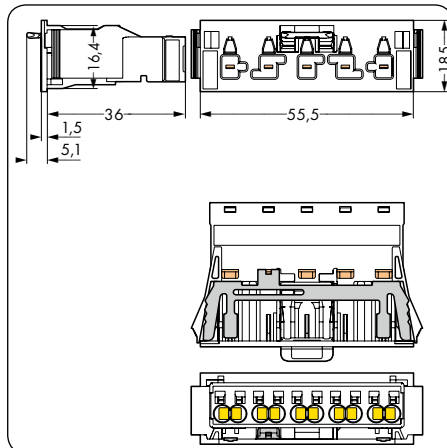
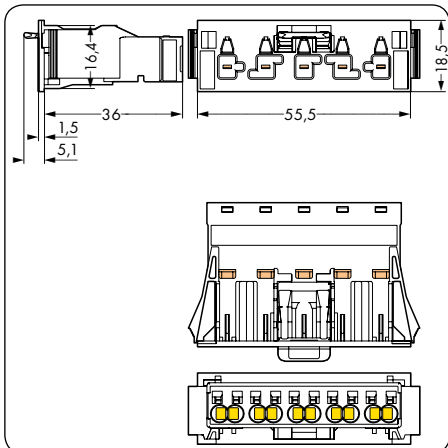


<p>2 x 0.5 – 4 mm<sup>2</sup> ①   2 x AWG 20 – 12</p> <p>400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ①   2 x AWG 20 – 12</p> <p>400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>Snap-in frames: – for 5-pole sockets and plugs (see pages 115 and 117)</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Plug</b>			<b>Plug with direct ground contact ③</b>			<b>Snap-in frame, 5-pole, for 0.5 – 2 mm plate thickness</b>		
● black	770-715	100	● black	770-715/007-000	100	black	770-321	100
○ white	770-735	100	○ white	770-735/007-000	100	white	770-341	100
● blue	770-2115	100	● blue	770-2115/007-000	100	<b>Snap-in frame, 5-pole, for 1 – 3 mm plate thickness, suitable for coding A / I / P / Q</b>		
● red	770-2315	100	For "Clean Earth" applications (loading up to 32A):			black	770-320	100
For "Clean Earth" applications (loading up to 32A):			● green	770-2335	100	white	770-340	100
● green	770-2335	100	For "Clean Earth" applications (loading up to 32A):					
			● green	770-2335/007-000	100			

Item-Specific Accessories		
<p><b>Lockout cap, for plug, separable, 5-pole</b></p> <p> yellow <b>770-360</b> 100</p>	<p><b>Lockout cap, for plug, separable, 5-pole</b></p> <p> yellow <b>770-360</b> 100</p>	<p><b>Locking lever, oversized, tool operated</b></p> <p> gray <b>770-140</b> 100 (4x25)</p>
<p><b>Coding pin, for plug (A and B coding)</b></p> <p> gray <b>770-401</b> 100</p>	<p><b>Coding pin, for plug (A and B coding)</b></p> <p> gray <b>770-401</b> 100</p>	<p>770-321 / 770-341</p>
<p><b>Accessories, 770 Series</b></p>		
<p><b>Lockout cap, for cutout, 5-pole</b></p> <p> black <b>770-645</b> 100 white <b>770-695</b> 100</p>	<p><b>Lockout cap, for cutout, 5-pole</b></p> <p> black <b>770-645</b> 100 white <b>770-695</b> 100</p>	<p>770-320 / 770-340</p>
<p><b>Dimensions</b></p>		





	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>
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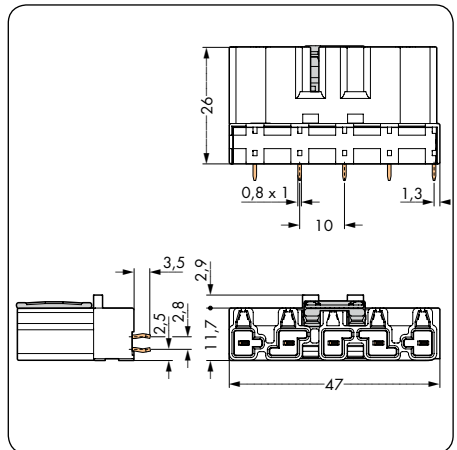
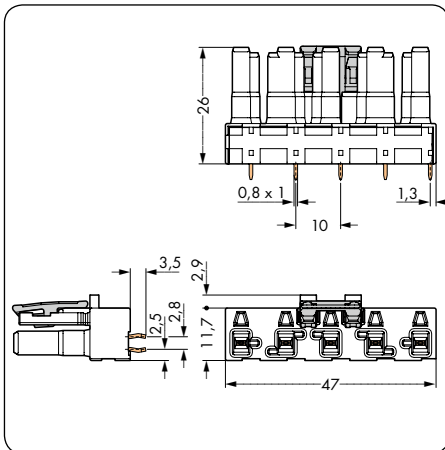
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 5-pole 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-805	50	● black	770-815	50
	○ white	770-825	50	○ white	770-835	50
	● blue	770-3105	50	● blue	770-3115	50
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	
<b>Info</b>	<b>Dimensions</b>					

① For current load, see table on page 123.

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.








400 V/6 kV/3 $I_N$ 25 A ①  ② Approvals	400 V/6 kV/3 $I_N$ 25 A ①  ② Approvals
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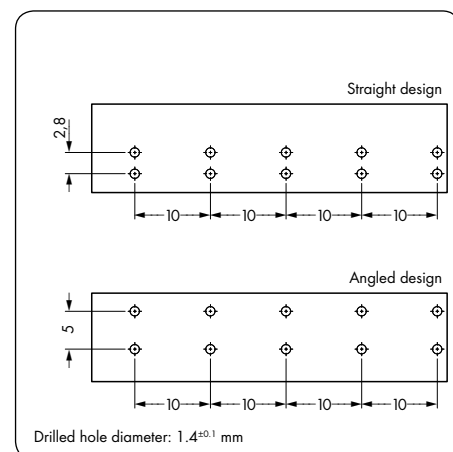
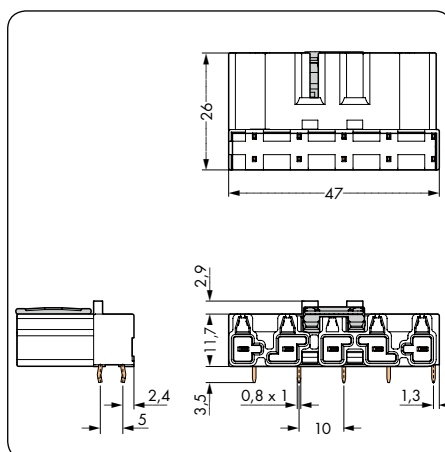
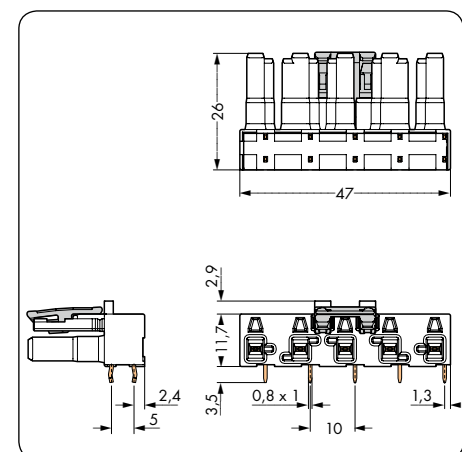
① Nominal current depends on PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	≧ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	≧ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	≧ 4 mm <sup>2</sup>

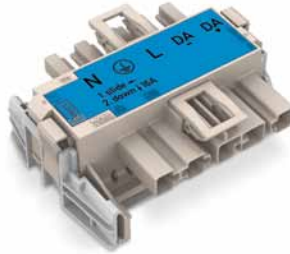
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
● black	770-805/011-000	50	● black	770-815/011-000	50
○ white	770-825/011-000	50	○ white	770-835/011-000	50
● blue	770-3105/011-000	50	● blue	770-3115/011-000	50



Item-Specific Accessories	
<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100	<b>Lockout cap, for plug, separable, 5-pole</b>  yellow 770-360 100
<b>Coding pin, for plug (A and B coding)</b>  gray 770-401 100	

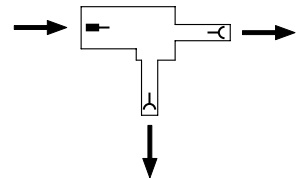
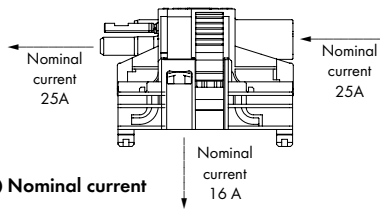
Dimensions	Hole patterns
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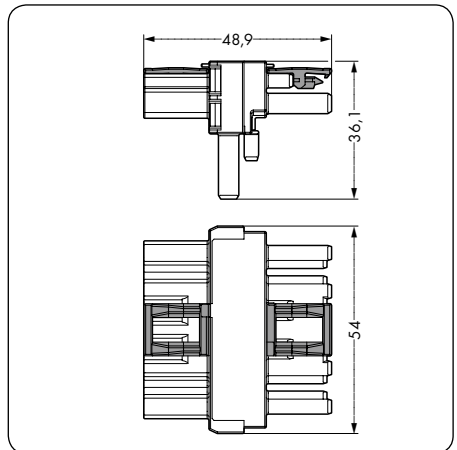
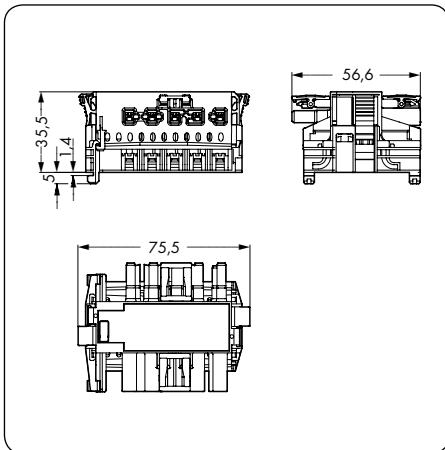
	400 V/6 kV/3 $I_N$ 25 A (16 A) ①  ② Approvals  <i>*Available March 2013</i>	400 V/6 kV/3 $I_N$ 25 A  ② Approvals
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Linect® T-connectors</b>		<b>Linect® T-connector ③, 5-pole,</b>			<b>T-distribution connector, 1 x plug / 2 x socket</b>	
<b>T-distribution connectors</b>		socket - plug		● black	<b>770-621</b>	50
<b>Intermediate couplers</b>		White housing, white cover		○ white	<b>770-671</b>	50
	○ white	<b>770-6225*</b>	25	● blue	<b>770-617</b>	50
		White housing, blue cover ④		● red	<b>770-921</b>	50
	● blue	<b>770-7105</b>	20	for "flying leads," with 3rd locking lever		
		White housing, dark gray cover		● black	<b>770-622</b>	50
	● dark gray	<b>770-7505</b>	20	○ white	<b>770-672</b>	50
				● blue	<b>770-620</b>	50
				● red	<b>770-922</b>	50
<b>Item-Specific Accessories</b>						
		<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>	
				● black	<b>770-201</b>	100
				○ white	<b>770-221</b>	100
		<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>	
				● yellow	<b>770-360</b>	100
<b>Info</b>	<b>Dimensions</b>					



- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ③ For suitable lighting connectors, see page 61
  - ④ Connectors for DALI applications
  - ⑤ One locking lever for each intermediate coupler is included.
- |             |          |                 |
|-------------|----------|-----------------|
| ● black     | Coding A | (N ⊕ L1 L2 L3)  |
| ○ white     | Coding A | (N ⊕ L1 L2 L3)  |
| ● blue      | Coding I | (N ⊕ L DA- DA+) |
| ● dark gray | Coding L | (N ⊕ L N' L')   |
| ● red       | Coding P | (N ⊕ L1 L2 L3)  |
- For coding information, see pages 224 to 226.  
Fire load data available upon request.



# Intermediate Couplers, 5-Pole

400 V/6 kV/3 $I_N$ 25 A  ② Approvals	250 V/4 kV/3 400 V/6 kV/3 $I_N$ 25 A  ② Approvals
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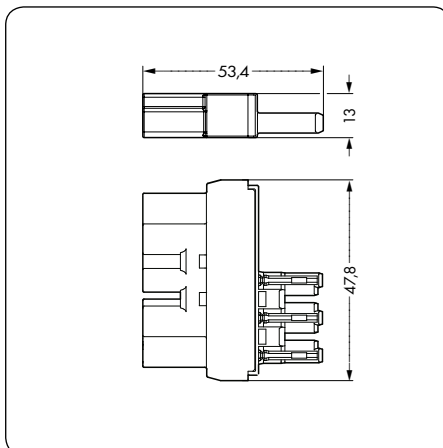
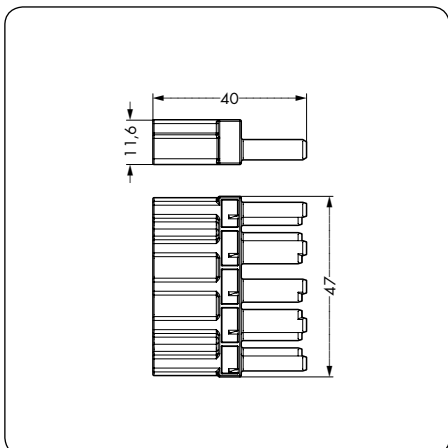


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Intermediate coupler, 1 x plug / 1 x socket</b>			<b>Intermediate coupler, 5- to 3-pole ⑤</b>		
● black	770-605	100	● L1 - L	770-901	100
○ white	770-655	100	○ L1 - L	770-951	100
● blue	770-619	100	● L1 - L	770-911	100
			● L2 - L	770-902	100
			○ L2 - L	770-952	100
			● L2 - L	770-912	100
			● L3 - L	770-903	100
			○ L3 - L	770-953	100
			● L3 - L	770-913	100

## Item-Specific Accessories

<b>Lockout cap, for socket, separable, 12-pole</b>  <ul style="list-style-type: none"> <li>black 770-201 100</li> <li>white 770-221 100</li> </ul>	<b>Lockout cap, for socket, separable, 12-pole</b>  <ul style="list-style-type: none"> <li>black 770-201 100</li> <li>white 770-221 100</li> </ul>
<b>Lockout cap, for plug, separable, 5-pole</b>  <ul style="list-style-type: none"> <li>yellow 770-360 100</li> </ul>	<b>Lockout cap, for plug, separable, 5-pole</b>  <ul style="list-style-type: none"> <li>yellow 770-360 100</li> </ul>







## Dimensions

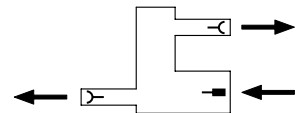
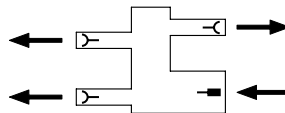


	<p>400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>① Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A</p> <p>① Approvals</p>
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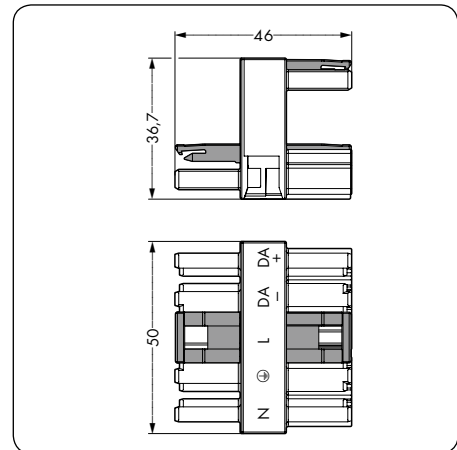
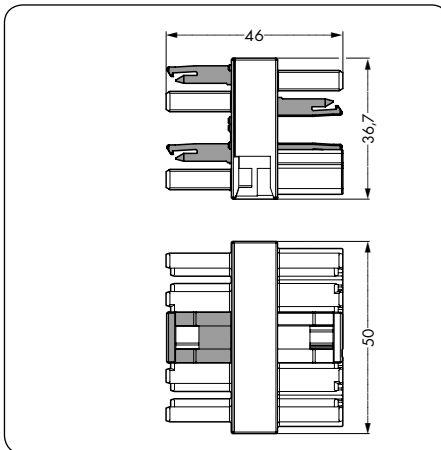


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution connectors, 3-way, h-distribution connectors, three-phase to single-phase distribution connectors, 5-pole	● black	770-609	25	● blue	770-992	50
	○ white	770-659	25			
	● blue	770-618	25			
	● red	770-909	25	● blue	770-993	50
				for "flying leads," with 3rd locking lever		

Item-Specific Accessories						
	<b>Mounting plate, for distribution connectors</b>  <ul style="list-style-type: none"> <li>black 770-625 25</li> <li>white 770-675 25</li> </ul>			<b>Mounting plate, for distribution connectors</b>  <ul style="list-style-type: none"> <li>black 770-625 25</li> <li>white 770-675 25</li> </ul>		
	<b>Fixing pin, for mounting plates</b>  <ul style="list-style-type: none"> <li>③ black 890-601 250</li> <li>④ black 770-601 250</li> </ul>			<b>Fixing pin, for mounting plates</b>  <ul style="list-style-type: none"> <li>③ black 890-601 250</li> <li>④ black 770-601 250</li> </ul>		
	<b>Lockout cap, for socket, separable, 12-pole</b>  <ul style="list-style-type: none"> <li>black 770-201 100</li> <li>white 770-221 100</li> </ul>			<b>Lockout cap, for socket, separable, 12-pole</b>  <ul style="list-style-type: none"> <li>black 770-201 100</li> <li>white 770-221 100</li> </ul>		
<b>Info</b>	<b>Dimensions</b>					



- ① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ② Position of jumper when delivered: L2
  - ③ 5.0 mm Ø, 0.2 - 1.2 mm plate thickness
  - ④ 6.0 mm Ø, 1 - 2.5 mm plate thickness
- |         |          |                 |
|---------|----------|-----------------|
| ● black | Coding A | (N ⊕ L1 L2 L3)  |
| ○ white | Coding A | (N ⊕ L1 L2 L3)  |
| ● blue  | Coding I | (N ⊕ L DA- DA+) |
| ● red   | Coding P | (N ⊕ L1 L2 L3)  |
- For coding information, see pages 224 to 226.  
Fire load data available upon request.



# Three-Phase to Single-Phase Distribution Connectors with Phase Selection, 5-Pole

250 V/4 kV/3  
400 V/6 kV/3  
I<sub>N</sub> 25 A

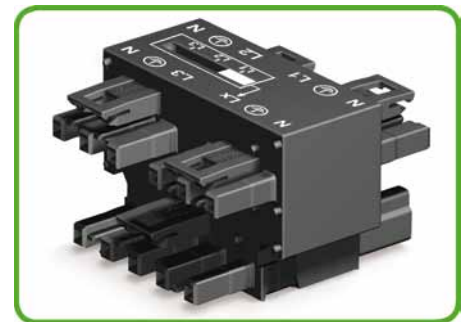
1 Approvals



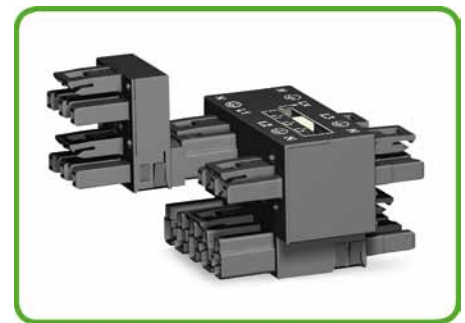
The different jumper positions allow for a wide range of different tap-off options to be selected. In addition to the 3 set tap-offs (L1/L2/L3), the selectable 4th tap-off provides for a high degree of flexibility before, during and after installation.



Movable jumper



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







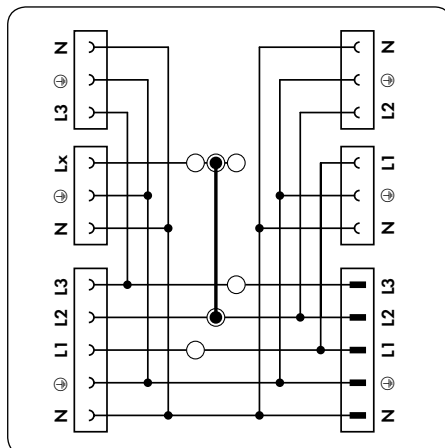
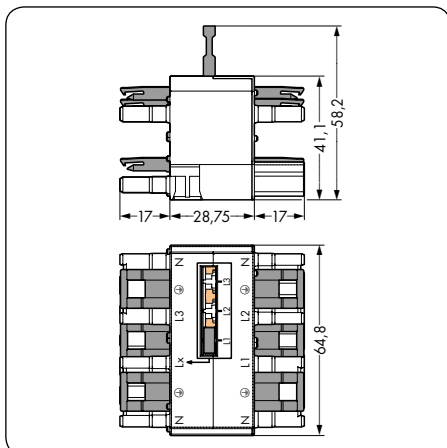
An additional h-distribution connector doubles L1. This results in the following connection options:  
L1/L1/L2/L2/L3 with jumper in position L2  
L1/L1/L2/L3/L3 with jumper in position L3



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.


Color	Item No.	Pack. Unit	
<b>Three-phase to single-phase distribution connector 2</b>			
● black	770-640	10	
○ white	770-690	10	
● red	770-940	10	
<b>Item-Specific Accessories</b>			
<b>Mounting plate</b> , for distribution connectors		<b>Lockout cap</b> , for socket, separable, 12-pole	
	black 770-625 25		black 770-201 100
	white 770-675 25		white 770-221 100
<b>Fixing pin</b> , for mounting plates		<b>Lockout cap</b> , for plug, separable, 5-pole	
	3 black 890-601 250		yellow 770-360 100
	4 black 770-601 250		
<b>Dimensions and Internal Circuit</b>			



# 3 WINSTA® MIDI

128

## Distribution Connectors with Phase Selection

<b>0.5 – 4 mm<sup>2</sup> ①</b> 250 V/4 kV/3 400 V/6 kV/3 I <sub>N</sub> 25 A  9 mm / 0.35 in	AWG 20 – 12
<b>② Approvals</b>	



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 plug-gable cable assemblies.



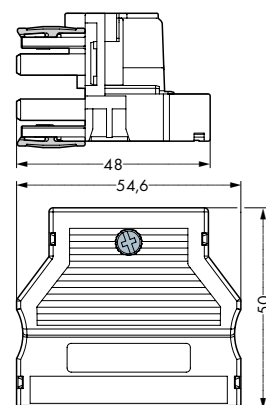
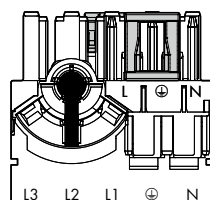
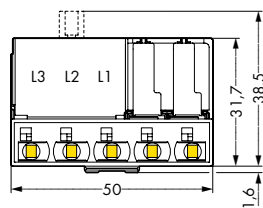
Plugging a 3-pole tap-off cable.

Description	Color	Item No.	Pack. Unit
<b>Distribution connectors with phase selection, with CAGE CLAMP®S connection,</b>	<b>Distribution connector with phase selection, with strain relief housing, for 9 – 13 mm cable diameter ④</b>		
Tap-off: Socket, 3-pole, N ⊕ L			
Through contact: Socket, 5-pole, N ⊕ L1 L2 L3			
	● black	<b>770-611</b>	10
	○ white	<b>770-661</b>	10
<b>Item-Specific Accessories</b>			
	<b>Mounting plate, for distribution connectors</b>		
		black <b>770-625</b>	25
		white <b>770-675</b>	25
	<b>Fixing pin, for mounting plates</b>		
		⑤ black <b>890-601</b>	250
		⑥ black <b>770-601</b>	250
	<b>Lockout cap, for socket, separable, 12-pole</b>		
		black <b>770-201</b>	100
		white <b>770-221</b>	100
<b>Info</b>	<b>Dimensions</b>		

- ① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ③ Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.
- ④ For more strain relief housings, see page 118.
- ⑤ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- ⑥ 6.0 mm Ø, 1 – 2.5 mm plate thickness




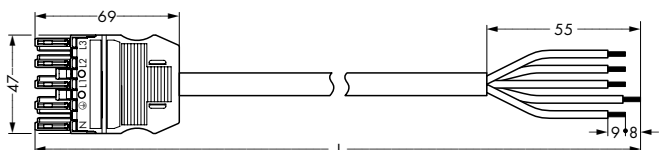


- black Coding A (N ⊕ L1 L2 L3)
- white Coding A (N ⊕ L1 L2 L3)

For coding information, see pages 224 to 226.  
Fire load data available upon request.







		PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5  400 V/6 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 9 mm  ① Approvals				
Interconnecting cable, 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
		5 m	771-9995/006-501	.../006-502	771-9995/016-501	.../016-502
		7 m	771-9995/006-701	.../006-702	771-9995/016-701	.../016-702
Connecting cable, 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
		5 m	771-9995/106-501	.../106-502	771-9995/116-501	.../116-502
		7 m	771-9995/106-701	.../106-702	771-9995/116-701	.../116-702
Connecting cable, 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
		5 m	771-9995/206-501	.../206-502	771-9995/216-501	.../216-502
		7 m	771-9995/206-701	.../206-702	771-9995/216-701	.../216-702

**Info**





① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.




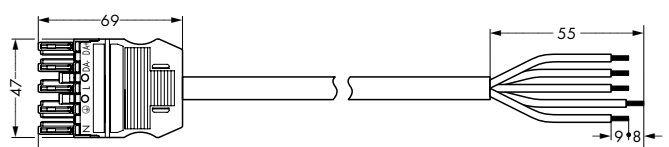

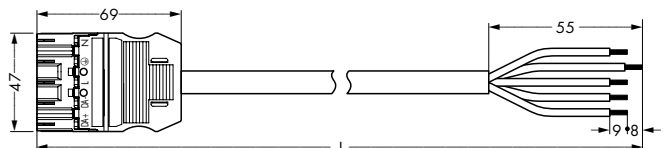





● black	Coding A	(N ⊕ L1 L2 L3)
○ white	Coding A	(N ⊕ L1 L2 L3)
● blue	Coding I	(N ⊕ L DA- DA+)

For coding information, see pages 224 to 226.  
Fire load data available upon request.


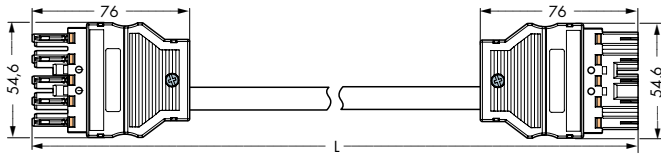

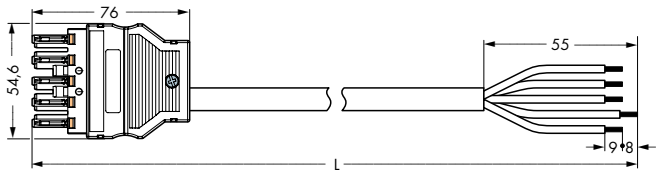

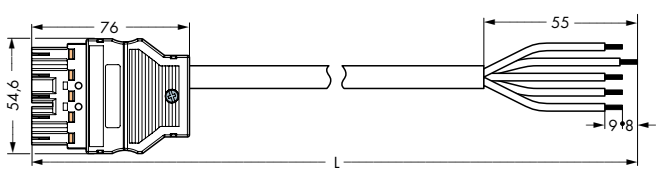
**Accessories**

	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)
	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)
<b>Lockout cap, for socket, separable, 12-pole</b>			
	black	770-201	100
	white	770-221	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
	yellow	770-360	100



		<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<p>● Coding I, e.g., for dimming function (DALI)</p> <p>PVC halogen-free</p> <p>1 m <b>771-9985/006-101</b> .../006-102 771-9985/016-101 .../016-102</p> <p>2 m <b>771-9985/006-201</b> .../006-202 771-9985/016-201 .../016-202</p> <p>3 m <b>771-9985/006-301</b> .../006-302 771-9985/016-301 .../016-302</p> <p>5 m <b>771-9985/006-501</b> .../006-502 771-9985/016-501 .../016-502</p> <p>7 m <b>771-9985/006-701</b> .../006-702 771-9985/016-701 .../016-702</p>				
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<p>● Coding I, e.g., for dimming function (DALI)</p> <p>PVC halogen-free</p> <p>1 m <b>771-9985/106-101</b> .../106-102 771-9985/116-101 .../116-102</p> <p>2 m <b>771-9985/106-201</b> .../106-202 771-9985/116-201 .../116-202</p> <p>3 m <b>771-9985/106-301</b> .../106-302 771-9985/116-301 .../116-302</p> <p>5 m <b>771-9985/106-501</b> .../106-502 771-9985/116-501 .../116-502</p> <p>7 m <b>771-9985/106-701</b> .../106-702 771-9985/116-701 .../116-702</p>				
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<p>● Coding I, e.g., for dimming function (DALI)</p> <p>PVC halogen-free</p> <p>1 m <b>771-9985/206-101</b> .../206-102 771-9985/216-101 .../216-102</p> <p>2 m <b>771-9985/206-201</b> .../206-202 771-9985/216-201 .../216-202</p> <p>3 m <b>771-9985/206-301</b> .../206-302 771-9985/216-301 .../216-302</p> <p>5 m <b>771-9985/206-501</b> .../206-502 771-9985/216-501 .../216-502</p> <p>7 m <b>771-9985/206-701</b> .../206-702 771-9985/216-701 .../216-702</p>				
		<b>Accessories</b>				
		<p><b>Locking lever, for "flying leads,"</b> manually operated</p> <p> black <b>770-101</b> 100 (4x25)</p> <p>white <b>770-121</b> 100 (4x25)</p>				
		<p><b>Locking lever, for "flying leads,"</b> tool operated</p> <p> black <b>770-111</b> 100 (4x25)</p> <p>white <b>770-131</b> 100 (4x25)</p>				
		<p><b>Lockout cap, for socket, separable, 12-pole</b></p> <p> black <b>770-201</b> 100</p> <p>white <b>770-221</b> 100</p>				
<p><b>Coding pin, for plug (A and B coding)</b></p> <p> gray <b>770-401</b> 100</p>		<p><b>Lockout cap, for plug, separable, 5-pole</b></p> <p> yellow <b>770-360</b> 100</p>				

Recommended items are shown in red and available for immediate delivery!

		PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5  400 V/6 kV/3 I <sub>N</sub> 16 A  Conductor ends, bonded: 9 mm  <b>1 Approvals</b>				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L PVC halogen-free				
		1 m	771-8985/006-103	.../006-104	771-8985/016-103	.../016-104
		2 m	771-8985/006-203	.../006-204	771-8985/016-203	.../016-204
		3 m	771-8985/006-303	.../006-304	771-8985/016-303	.../016-304
		5 m	771-8985/006-503	.../006-504	771-8985/016-503	.../016-504
		7 m	771-8985/006-703	.../006-704	771-8985/016-703	.../016-704
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L PVC halogen-free				
		1 m	771-8985/106-103	.../106-104	771-8985/116-103	.../116-104
		2 m	771-8985/106-203	.../106-204	771-8985/116-203	.../116-204
		3 m	771-8985/106-303	.../106-304	771-8985/116-303	.../116-304
		5 m	771-8985/106-503	.../106-504	771-8985/116-503	.../116-504
		7 m	771-8985/106-703	.../106-704	771-8985/116-703	.../116-704
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L PVC halogen-free				
		1 m	771-8985/206-103	.../206-104	771-8985/216-103	.../216-104
		2 m	771-8985/206-203	.../206-204	771-8985/216-203	.../216-204
		3 m	771-8985/206-303	.../206-304	771-8985/216-303	.../216-304
		5 m	771-8985/206-503	.../206-504	771-8985/216-503	.../216-504
		7 m	771-8985/206-703	.../206-704	771-8985/216-703	.../216-704

**Info**

**1** For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.





For other cables, please contact factory.

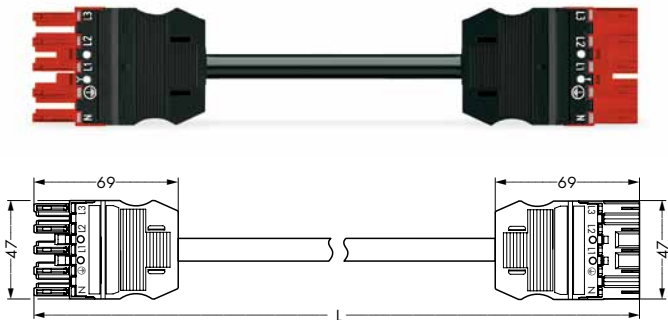
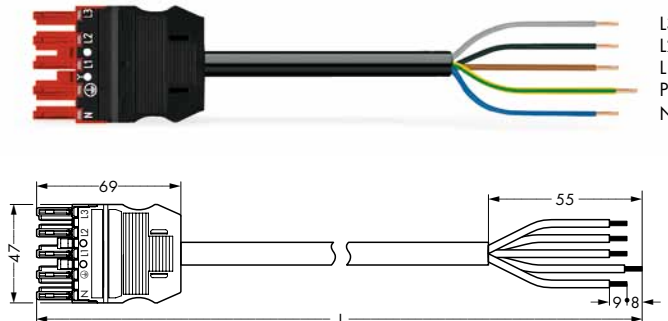
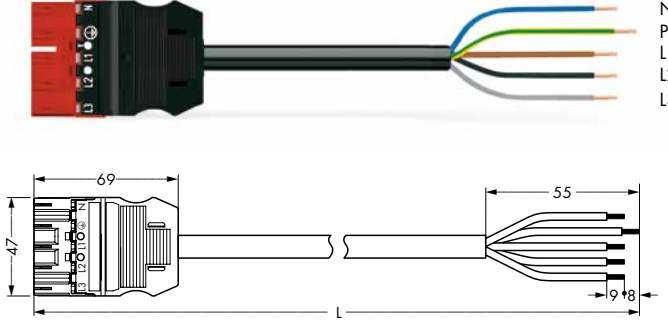
● dark gray Coding L (N ⊕ L N' L')

● red Coding P (N ⊕ L1 L2 L3)

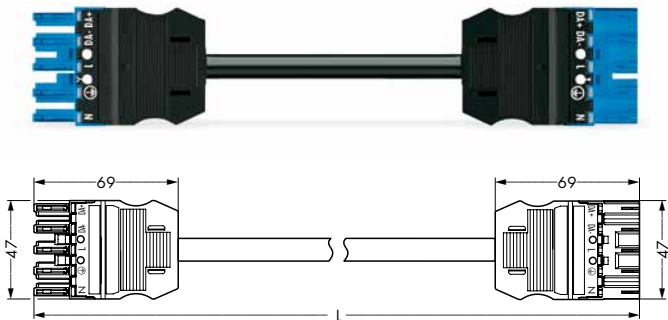
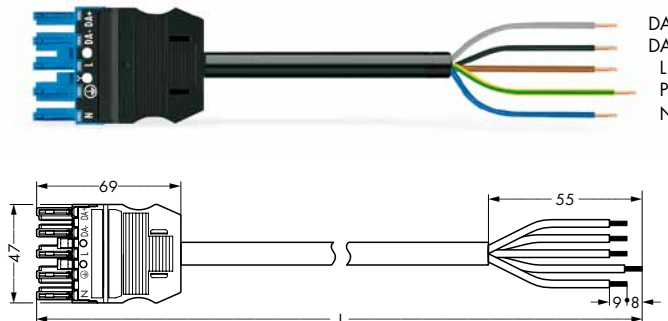
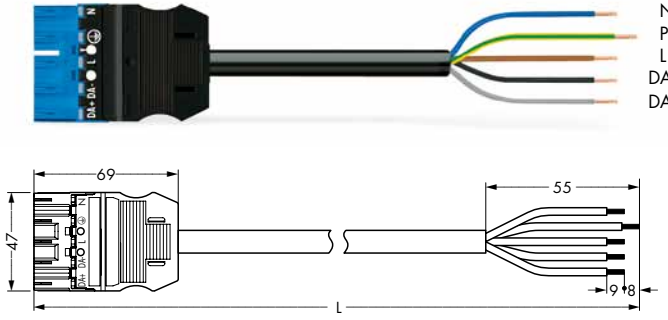
For coding information, see pages 224 to 226.  
Fire load data available upon request.

**Accessories**

	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)
	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)
<b>Lockout cap, for socket, separable, 12-pole</b>			
	black	770-201	100
	white	770-221	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
	yellow	770-360	100


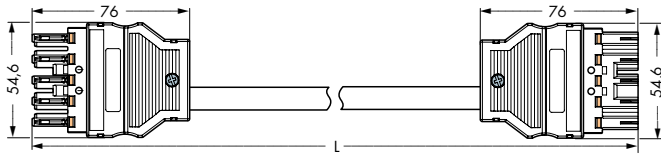

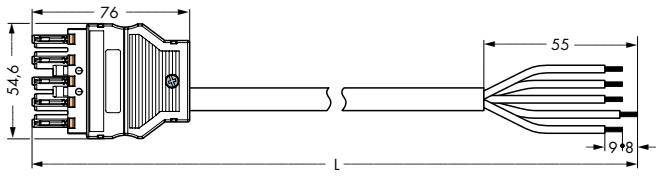

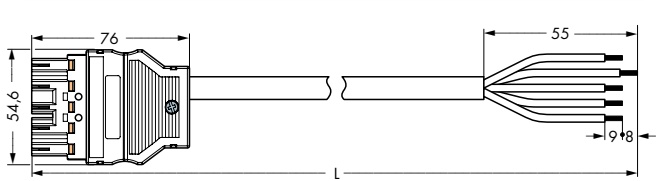
	<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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		PVC H05VV-F 5G2.5 halogen-free H05Z1 Z1-F 5G2.5  400 V/6 kV/3 I <sub>N</sub> 20 A  Conductor ends, bonded: 9 mm  <b>1 Approvals</b>				
<b>Interconnecting cable, socket – plug</b>		Length Item No. black Item No. white Item No. black Item No. white	Coding A PVC halogen-free			
		1 m 2 m 3 m  5 m 7 m	771-9995/007-101 771-9995/007-201 771-9995/007-301  771-9995/007-501 771-9995/007-701	.../007-102 .../007-202 .../007-302  .../007-502 .../007-702	771-9995/017-101 771-9995/017-201 771-9995/017-301  771-9995/017-501 771-9995/017-701	.../017-102 .../017-202 .../017-302  .../017-502 .../017-702
<b>Connecting cable, socket – free end</b>		Length Item No. black Item No. white Item No. black Item No. white	Coding A PVC halogen-free			
		1 m 2 m 3 m  5 m 7 m	771-9995/107-101 771-9995/107-201 771-9995/107-301  771-9995/107-501 771-9995/107-701	.../107-102 .../107-202 .../107-302  .../107-502 .../107-702	771-9995/117-101 771-9995/117-201 771-9995/117-301  771-9995/117-501 771-9995/117-701	.../117-102 .../117-202 .../117-302  .../117-502 .../117-702
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<b>Info</b>		<b>Accessories</b>				
<p><b>1</b> For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>For other cables, please contact factory.</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>For coding information, see pages 224 to 226.                  Fire load data available upon request.</p>		Locking lever, for "flying leads," manually operated				
		black <b>770-101</b> 100 (4x25) white <b>770-121</b> 100 (4x25)				
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		yellow <b>770-360</b> 100				

	<p>PVC H05VV-F 5G2.5 halogen-free H05Z1Z1-F 5G2.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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Recommended items are shown in red and available for immediate delivery!



		PVC H05VV-F 5G2.5 halogen-free H05Z1 Z1-F 5G2.5  400 V/6 kV/3 I <sub>N</sub> 20 A  Conductor ends, bonded: 9 mm  <b>1 Approvals</b>				
<b>Interconnecting cable, socket – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L	PVC halogen-free			
		1 m	771-8985/007-103	.../007-104	771-8985/017-103	.../017-104
		2 m	771-8985/007-203	.../007-204	771-8985/017-203	.../017-204
		3 m	771-8985/007-303	.../007-304	771-8985/017-303	.../017-304
		5 m	771-8985/007-503	.../007-504	771-8985/017-503	.../017-504
		7 m	771-8985/007-703	.../007-704	771-8985/017-703	.../017-704
<b>Connecting cable, socket – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L	PVC halogen-free			
		1 m	771-8985/107-103	.../107-104	771-8985/117-103	.../117-104
		2 m	771-8985/107-203	.../107-204	771-8985/117-203	.../117-204
		3 m	771-8985/107-303	.../107-304	771-8985/117-303	.../117-304
		5 m	771-8985/107-503	.../107-504	771-8985/117-503	.../117-504
		7 m	771-8985/107-703	.../107-704	771-8985/117-703	.../117-704
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		5 m	771-8985/207-503	.../207-504	771-8985/217-503	.../217-504
		7 m	771-8985/207-703	.../207-704	771-8985/217-703	.../217-704

**Info**

**1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.





For other cables, please contact factory.

● dark gray Coding L (N ⊕ L N' L')

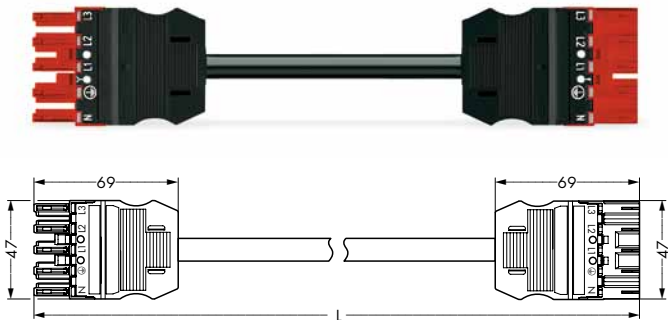
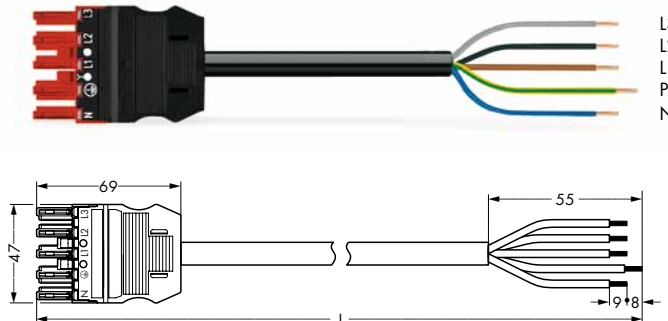
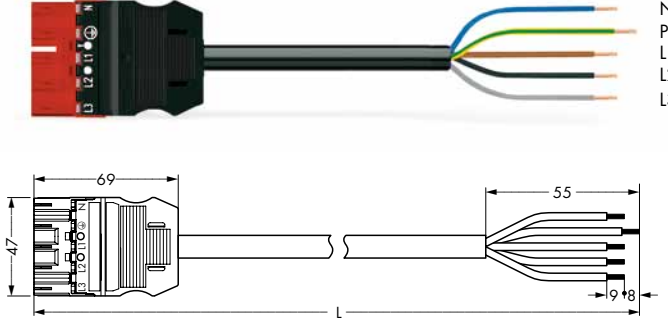
● red Coding P (N ⊕ L1 L2 L3)

For coding information, see pages 224 to 226.  
Fire load data available upon request.

**Accessories**

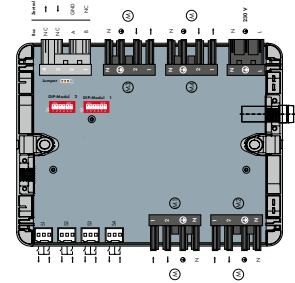
	manually operated		
	black	770-101	100 (4x25)
	white	770-121	100 (4x25)
	tool operated		
	black	770-111	100 (4x25)
	white	770-131	100 (4x25)
<b>Lockout cap, for socket, separable, 12-pole</b>			
	black	770-201	100
	white	770-221	100
<b>Lockout cap, for plug, separable, 5-pole</b>			
	yellow	770-360	100







	<p>PVC H05VV-F 5G2.5 halogen-free H05Z1Z1-F 5G2.5</p> <p>400 V/6 kV/3 I<sub>N</sub> 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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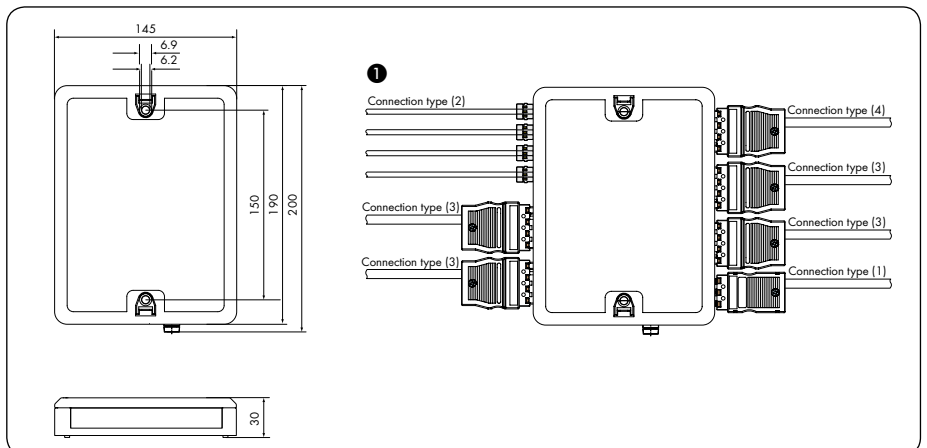
	<b>Sunblind box with 4 switch inputs and with 4 power outputs</b>	<b>Technical data</b>
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Description	Color	Item No.	Pack. Unit	Technical data																																
<b>Sunblind box</b> The WINSTA® sunblind box is a decentralized, stand-alone unit that controls 4 sunblind motors operated via standard switches. Output group configuration, operating time and "slat/sunblind" mode selection are performed via DIP switch. Operating the boxes in a network configuration provides extended functionality: 1. The sunblinds of all connected boxes are moved into the upper or end position via a central 24V control line. Either a weather station, timer or central switch can enable this functionality. 2. The boxes also connect to a serial bus, allowing a higher-level control system to access up to 16 boxes connected to one bus segment. This operating mode addresses both individual channels and groups of boxes.	<b>Sunblind box</b>  black	<b>770-629/130-000</b>	1	<table border="1"> <tr><td>Power supply</td><td>230 VAC / 50 - 60 Hz</td></tr> <tr><td>Voltage range</td><td>± 10 %</td></tr> <tr><td>Fuse protection</td><td>Internal, miniature metric fuse, accessible from outside, 5 x 20 mm, max. 6.3 A</td></tr> <tr><td>Configuration</td><td>via DIP switch/header</td></tr> <tr><td>Inputs</td><td>4 switch inputs for on-site switches</td></tr> <tr><td>Signal voltage</td><td>12 V</td></tr> <tr><td>Outputs</td><td>4 power outputs (up, down, interlocked)</td></tr> <tr><td>Switching voltage</td><td>230 VAC</td></tr> <tr><td>Switching current</td><td>1 x 6 A at 230 VAC</td></tr> <tr><td>Control</td><td>Bus control or central control via 24 VDC signal</td></tr> <tr><td>Permissible ambient operating temperature</td><td>-5 °C ... + 55 °C</td></tr> <tr><td>Type of mounting</td><td>Screw fixing</td></tr> <tr><td>Installation site</td><td>Interior area</td></tr> <tr><td>Degree of protection</td><td>IP20</td></tr> <tr><td>Mounting position</td><td>any</td></tr> <tr><td>Conformity mark</td><td>CE</td></tr> </table>	Power supply	230 VAC / 50 - 60 Hz	Voltage range	± 10 %	Fuse protection	Internal, miniature metric fuse, accessible from outside, 5 x 20 mm, max. 6.3 A	Configuration	via DIP switch/header	Inputs	4 switch inputs for on-site switches	Signal voltage	12 V	Outputs	4 power outputs (up, down, interlocked)	Switching voltage	230 VAC	Switching current	1 x 6 A at 230 VAC	Control	Bus control or central control via 24 VDC signal	Permissible ambient operating temperature	-5 °C ... + 55 °C	Type of mounting	Screw fixing	Installation site	Interior area	Degree of protection	IP20	Mounting position	any	Conformity mark	CE
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 <b>h-distribution connector</b> , bi-directional, plug - socket / socket <b>770-633</b>			50																																	
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<b>Info</b>	<b>Dimensions</b>																																			

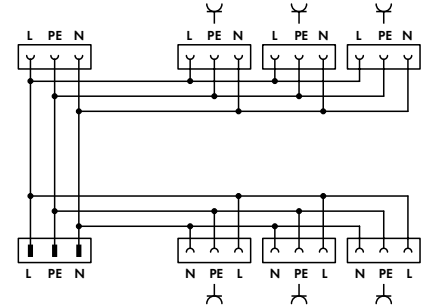
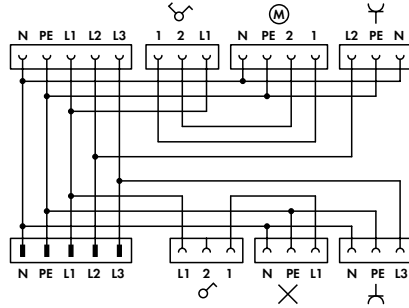
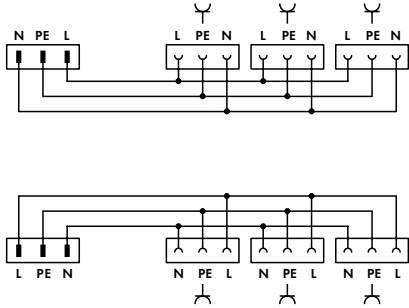
For more information, please visit [www.wago.com](http://www.wago.com).

Fire load data available upon request.

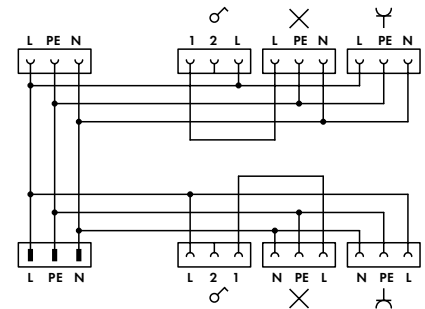
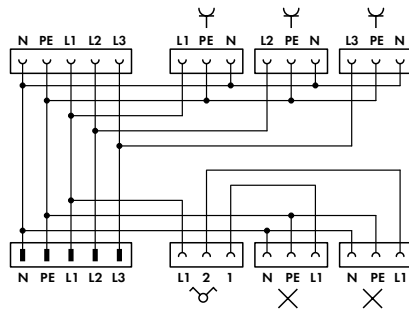
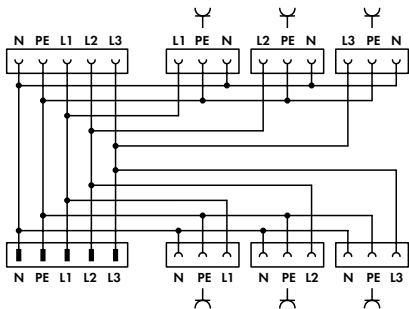


# Distribution Boxes, Wired

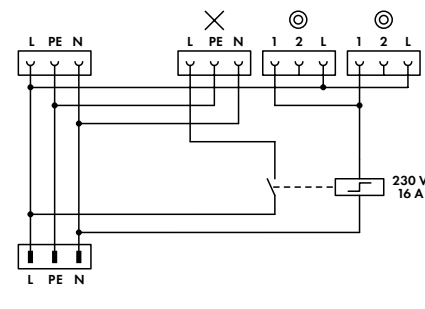
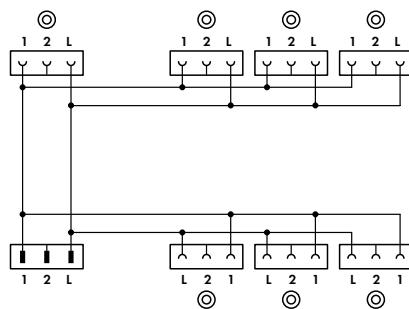
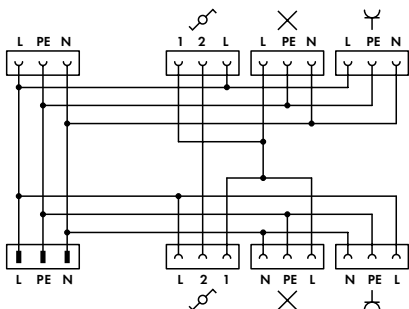
<p><b>Internal wiring 4 mm<sup>2</sup></b>                  400 V / 6 kV / 3 5-pole                  250 V / 4 kV / 3 3-pole                  I<sub>N</sub> 25 A</p>	<p><b>Internal wiring 4 mm<sup>2</sup></b>                  400 V / 6 kV / 3 5-pole                  250 V / 4 kV / 3 3-pole                  I<sub>N</sub> 25 A</p>	<p><b>Internal wiring 2.5 mm<sup>2</sup> / 4 mm<sup>2</sup></b>                  400 V / 6 kV / 3 5-pole                  250 V / 4 kV / 3 3-pole                  max. 25 A, depends on the built-in appliance</p>
--	--	---



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Distribution box, separate circuits</b>			<b>Distribution box, sunblind control, single-pole switch, distribution</b>			<b>Distribution box, 1-phase distribution</b>		
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
<b>Distribution box, 3-phase/1-phase distribution</b>			<b>Distribution box, series circuits and distribution</b>			<b>Distribution box, single-pole switch and distribution</b>		
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
<b>Distribution box, two-way circuit and distribution</b>			<b>Distribution box, push-button version</b>			<b>Distribution box, surge switch circuit</b>		
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

For other circuits, please contact factory.

## Strain Relief Housings, 6-Pole

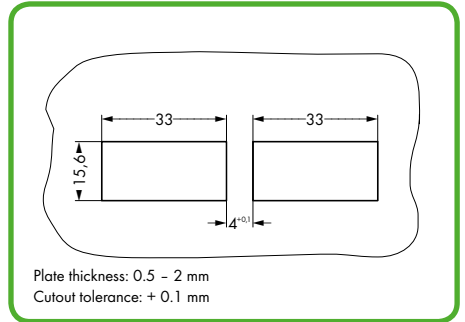
Snap-on type strain relief housings for:

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



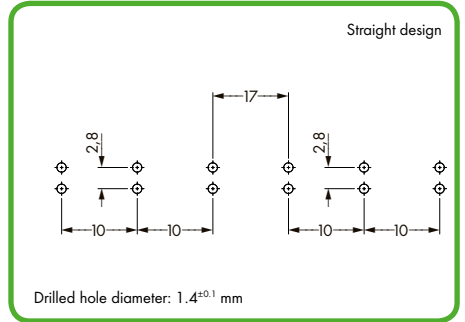
Application example: 6-pole connector

Description	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 2 cables, 8.5 - 13.5 mm diameter ❶		
	black	770-506/029-000	50
	white	770-516/029-000	50



Using a 6-pole strain relief housing with snap-in connectors requires the cutout dimensions shown above.

Item-Specific Accessories	
	Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm 210-333100 Marking area: 62 x 6.5 mm



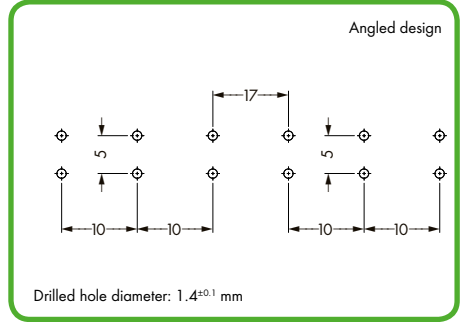
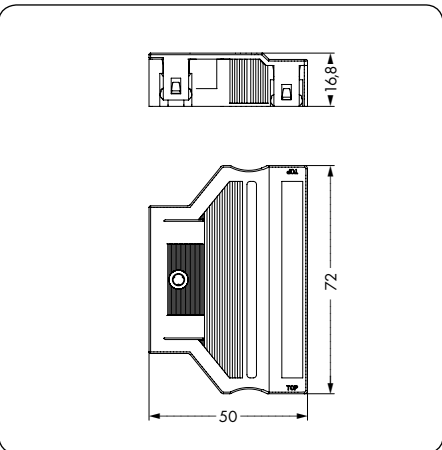
Using a straight, 6-pole PCB connector requires the hole patterns shown above.

Info	Dimensions
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❶ For H05VV and NYM cables  
❷ For H05VV cables

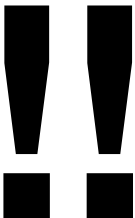
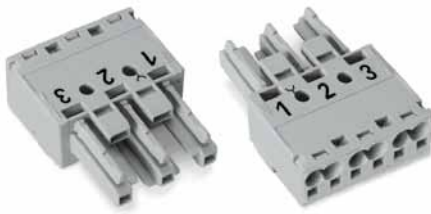
For other cables, please contact factory.

Fire load data available upon request.



Using an angled, 6-pole PCB connector requires the hole patterns shown above.





#### Important note:

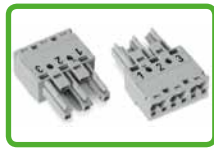
B-Coded components of the *WINSTA*<sup>®</sup> MIDI special series are designed for specialty applications (e.g., measurement, control and regulation technology) and certified according to DIN EN 61984. In addition to the gray models for 110–400V voltages, there is now also a variant in light green for low voltages up to 48V, as well as a pink one for bus applications.

Each of the three versions is available in 2-, 3- or 4- and 5-pole configurations. Pole marking can be printed at the factory to suit customer requirements. According to IEC 61535, B-Coded products are protected against mismatching with all other coding types found in the *WINSTA*<sup>®</sup> system. Within B Coding, all special variants can mate with each other. The variable coding system provides clear circuit identification. Special variants can be clearly differentiated according to color and pole marking. They can be coded on-site or delivered with factory-installed custom coding.

# WINSTA® MIDI special 770/771 Series, up to 4 mm<sup>2</sup> / 25 A

# 4

- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with other systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards does not guarantee hazard-preventing, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.



<b>770 Series</b>	
Pluggable Connectors, 2-Pole	145
Pluggable Connectors, 3-Pole	150
Pluggable Connectors, 4-Pole	158
Pluggable Connectors, 5-Pole	166



<b>770 Series</b>	
Snap-In Device Connectors, 2-Pole	146
Snap-In Device Connectors, 3-Pole	151
Snap-In Device Connectors, 4-Pole	159
Snap-In Device Connectors, 5-Pole	167



<b>770 Series</b>	
PCB Connectors, 3-Pole	152 - 153
PCB Connectors, 4-Pole	160 - 161
PCB Connectors, 5-Pole	168 - 169



<b>770 Series</b>	
Distribution Connectors, 2-Pole	147
Distribution Connectors, 3-Pole	154 - 155
Distribution Connectors, 4-Pole	162 - 163
Distribution Connectors, 5-Pole	170

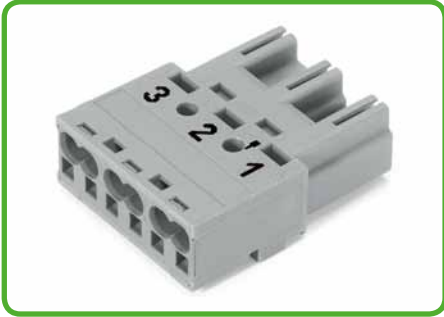


<b>771 Series</b>	
Cable Assemblies, 2-Pole	148 - 149
Cable Assemblies, 3-Pole	156 - 157
Cable Assemblies, 4-Pole	164 - 165
Cable Assemblies, 5-Pole	172 - 173

# 4 Handling WINSTA® MINI special, 770 Series

144

## Pole marking



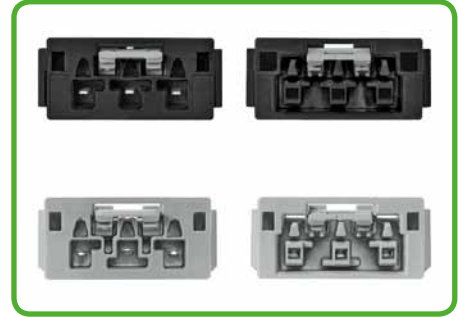
Gray, B-coded connector with "3 2 1" marking; e.g., control signal (A circuit).

## Circuit identification



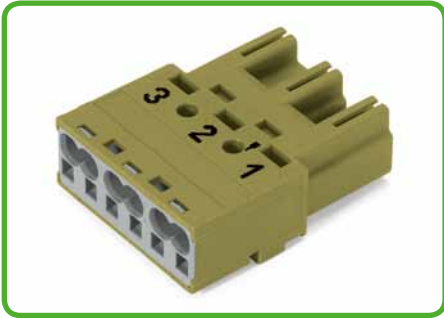
Easy circuit identification via different marking and colors.

## Compatibility



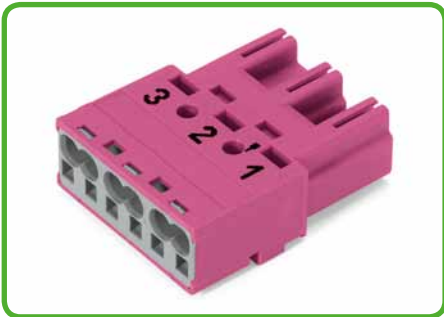
B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

## Pole marking

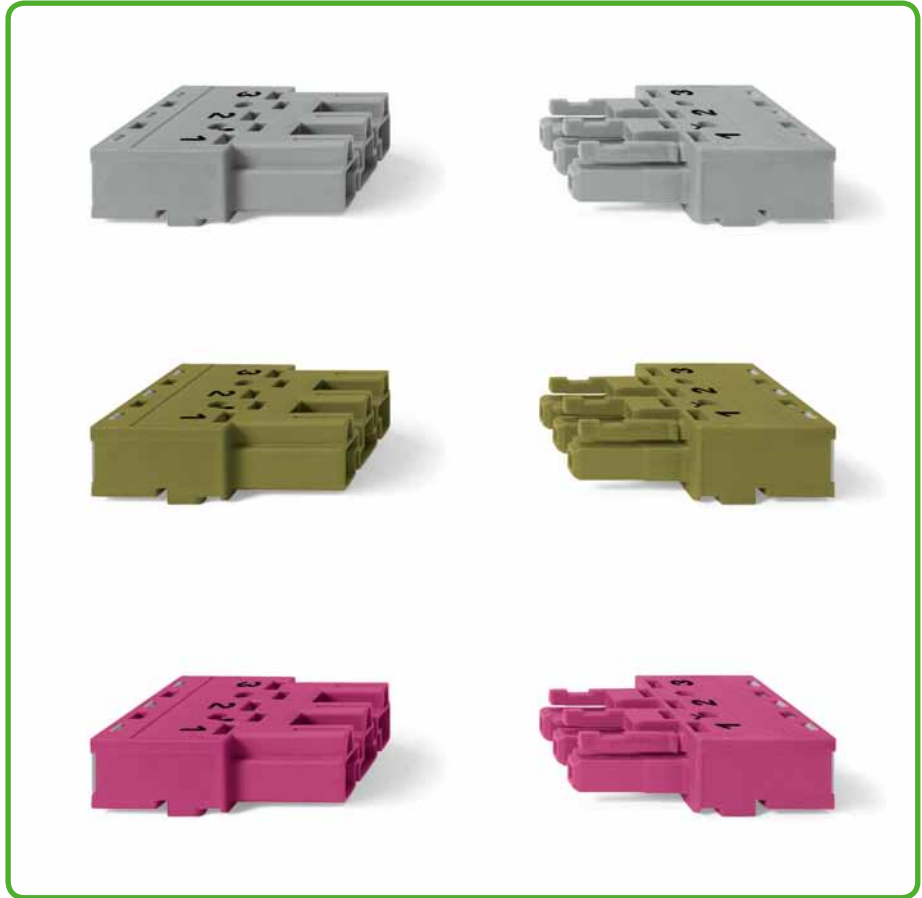


Light green, B-coded connector with "3 2 1" marking; e.g., DC power supply (24V circuit).

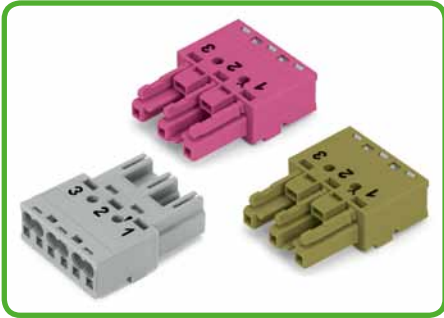
## Pole marking



Pink, B-coded connector with "3 2 1" marking; e.g., bus signal (B circuit).



## Plug compatibility

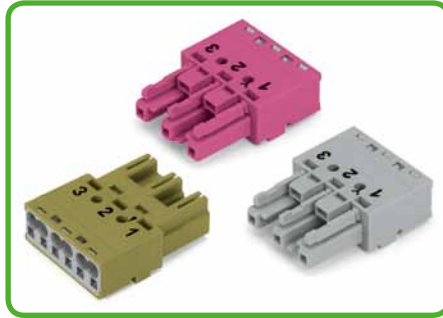


B-coded connectors with different colors can be plugged together.

### Important note:

Different colors and/or pole marking are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.







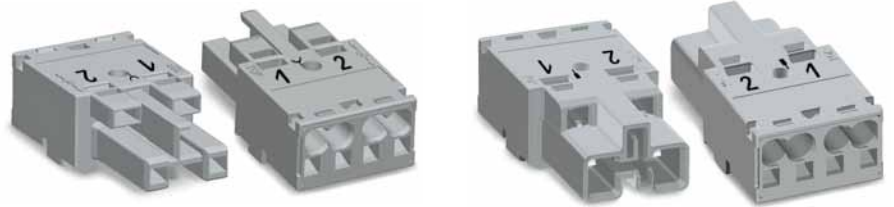
# WINSTA® MIDI special Sockets and Plugs, 2-Pole

CAGE CLAMP® S









4



145

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



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 2-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	770-242	100	gray	770-252	100
	gray	770-242/060-000*	100	gray	770-252/060-000*	100
	light green	770-262	100	light green	770-272	100
	pink	770-282	100	pink	770-292	100
	pink	770-282/080-000*	100	pink	770-292/080-000*	100
	pink	770-282/082-000*	100	pink	770-292/082-000*	100
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories						
Strain relief housing, for 1 cable, 5 - 9 mm diameter			Strain relief housing, for 1 cable, 5 - 9 mm diameter			
	black	770-502/042-000	50		black	770-502/042-000 50
	white	770-512/042-000	50		white	770-512/042-000 50
Strain relief housing, for 1 cable, 7 - 10.5 mm diameter			Strain relief housing, for 1 cable, 7 - 10.5 mm diameter			
	black	770-502/041-000	50		black	770-502/041-000 50
	white	770-512/041-000	50		white	770-512/041-000 50

Accessories, 770 Series						
Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated			
	black	770-101	100 (4x25)		black	770-111 100 (4x25)
	white	770-121	100 (4x25)		white	770-131 100 (4x25)

Info	Dimensions
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① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

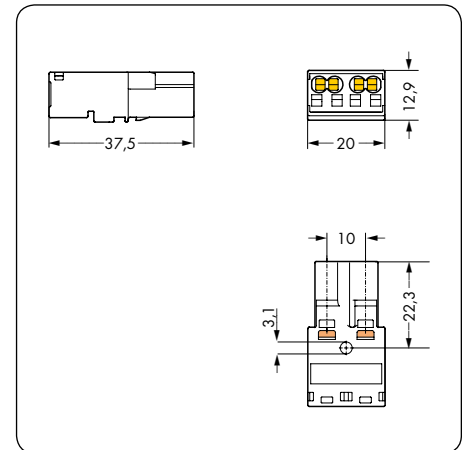
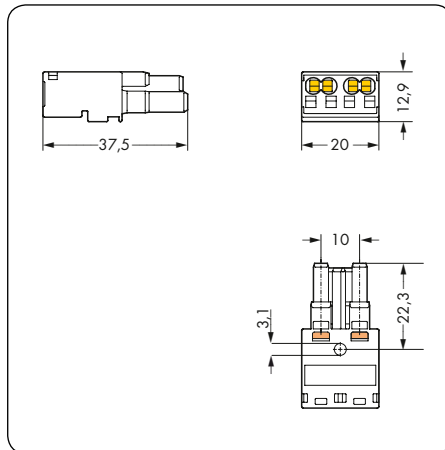
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Standard printing (without suffix number)

- gray Coding B (1 2)
- light green Coding B (1 2)
- pink Coding B (1 2)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.







WINSTA® – Perfectly plugged!

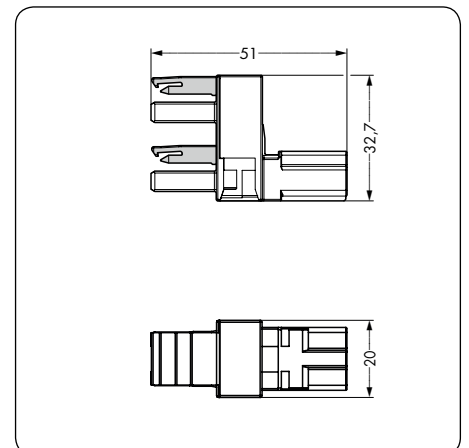
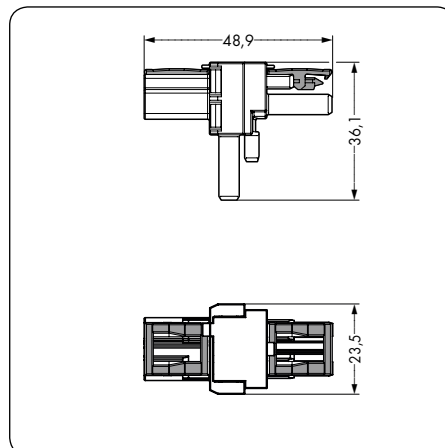
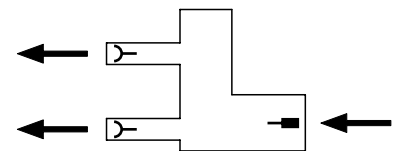
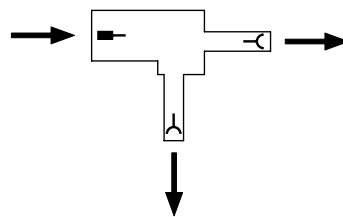


# T- and h-Distribution Connectors, 2-Pole

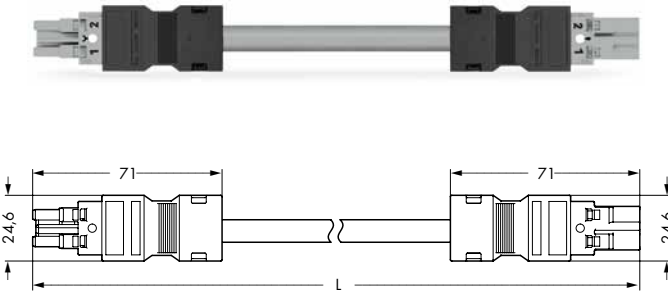
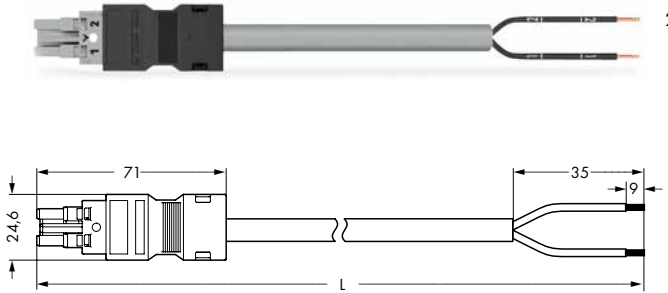
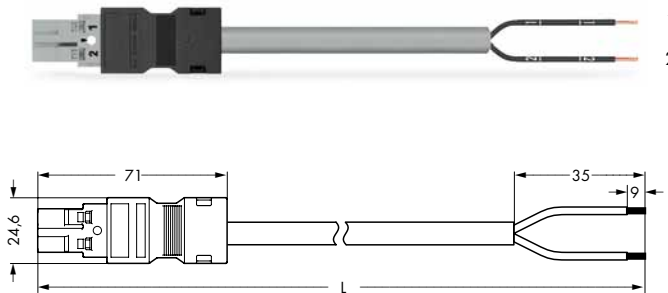
	250 V/4 kV/3 $I_N$ 25 A  1 Approvals	<i>Available April 2013</i>
	250 V/4 kV/3 $I_N$ 25 A  1 Approvals	<i>Available April 2013</i>



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>T-distribution connectors, h-distribution connectors</b>	<b>T-distribution connector, 1 x plug / 2 x socket</b>			<b>h-distribution connector, unidirectional, plug / socket - socket</b>		
	● gray	<b>770-1601</b>	50	● gray	<b>770-1651</b>	50
	● light green	<b>770-1602</b>	50	● light green	<b>770-1652</b>	50
	● pink	<b>770-1603</b>	50	● pink	<b>770-1653</b>	50
	for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
	● gray	<b>770-1701</b>	50	● gray	<b>770-1751</b>	50
	● light green	<b>770-1702</b>	50	● light green	<b>770-1752</b>	50
	● pink	<b>770-1703</b>	50	● pink	<b>770-1753</b>	50
	<b>For additional pole marking, see page 227.</b>			<b>For additional pole marking, see page 227.</b>		
<b>Item-Specific Accessories</b>						
	<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for socket, separable, 12-pole</b>		
		black <b>770-201</b>	100		black <b>770-201</b>	100
		white <b>770-221</b>	100		white <b>770-221</b>	100
	<b>Lockout cap, for plug, separable, 5-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
		yellow <b>770-360</b>	100		yellow <b>770-360</b>	100
<b>Dimensions</b>						



# 4 WINSTA® MIDI special Cable Assemblies 2 x 1.5 mm<sup>2</sup>

	<p>PVC Control line: 2 x 1.5, gray</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<p>Interconnecting cable, socket – plug</p>	<p>Color Length Item No. black</p>																																								
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8992/006-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/006-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/006-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/006-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/006-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/006-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/006-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/006-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/006-507</td></tr> </table>	●	1 m	771-8992/006-103	●	3 m	771-8992/006-303	●	5 m	771-8992/006-503	●	1 m	771-8992/006-105	●	3 m	771-8992/006-305	●	5 m	771-8992/006-505	●	1 m	771-8992/006-107	●	3 m	771-8992/006-307	●	5 m	771-8992/006-507													
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●	3 m	771-8992/006-305																																							
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●	1 m	771-8992/006-107																																							
●	3 m	771-8992/006-307																																							
●	5 m	771-8992/006-507																																							
<p>Connecting cable, socket – free end</p>	<p>Color Length Item No. black</p>																																								
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8992/106-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/106-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/106-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/106-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/106-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/106-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/106-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/106-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/106-507</td></tr> </table>	●	1 m	771-8992/106-103	●	3 m	771-8992/106-303	●	5 m	771-8992/106-503	●	1 m	771-8992/106-105	●	3 m	771-8992/106-305	●	5 m	771-8992/106-505	●	1 m	771-8992/106-107	●	3 m	771-8992/106-307	●	5 m	771-8992/106-507													
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●	1 m	771-8992/106-107																																							
●	3 m	771-8992/106-307																																							
●	5 m	771-8992/106-507																																							
<p>Connecting cable, plug – free end</p>	<p>Color Length Item No. black</p>																																								
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8992/206-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/206-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/206-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/206-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/206-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/206-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/206-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/206-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/206-507</td></tr> </table>	●	1 m	771-8992/206-103	●	3 m	771-8992/206-303	●	5 m	771-8992/206-503	●	1 m	771-8992/206-105	●	3 m	771-8992/206-305	●	5 m	771-8992/206-505	●	1 m	771-8992/206-107	●	3 m	771-8992/206-307	●	5 m	771-8992/206-507													
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<p>Info</p>	<p>Accessories</p>																																								
<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>For other cables, please contact factory.</p> <table border="1"> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2)</td></tr> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2)	●	light green	Coding B	(1 2)	●	pink	Coding B	(1 2)	<p>Locking lever, for "flying leads," manually operated</p> <table border="1"> <tr><td>●</td><td>black</td><td>770-101</td><td>100 (4x25)</td></tr> <tr><td>●</td><td>white</td><td>770-121</td><td>100 (4x25)</td></tr> </table> <p>Locking lever, for "flying leads," tool operated</p> <table border="1"> <tr><td>●</td><td>black</td><td>770-111</td><td>100 (4x25)</td></tr> <tr><td>●</td><td>white</td><td>770-131</td><td>100 (4x25)</td></tr> </table> <p>Lockout cap, for socket, separable, 12-pole</p> <table border="1"> <tr><td>●</td><td>black</td><td>770-201</td><td>100</td></tr> <tr><td>●</td><td>white</td><td>770-221</td><td>100</td></tr> </table> <p>Lockout cap, for plug, separable, 5-pole</p> <table border="1"> <tr><td>●</td><td>yellow</td><td>770-360</td><td>100</td></tr> </table>	●	black	770-101	100 (4x25)	●	white	770-121	100 (4x25)	●	black	770-111	100 (4x25)	●	white	770-131	100 (4x25)	●	black	770-201	100	●	white	770-221	100	●	yellow	770-360	100
●	gray	Coding B	(1 2)																																						
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●	white	770-131	100 (4x25)																																						
●	black	770-201	100																																						
●	white	770-221	100																																						
●	yellow	770-360	100																																						

# Cable Assemblies 2 x 2.5 mm<sup>2</sup>

		PVC	Control line: 2 x 2.5, gray																												
		250 V/4 kV/3 I <sub>N</sub> 20 A																													
		Conductor ends, bonded: 9 mm																													
		① Approvals																													
<b>Interconnecting cable, socket – plug</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black																											
		<b>Coding B</b>																													
		PVC																													
		<table border="0"> <tr><td>●</td><td>1 m</td><td>771-8992/007-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/007-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/007-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/007-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/007-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/007-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/007-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/007-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/007-507</td></tr> </table>			●	1 m	771-8992/007-103	●	3 m	771-8992/007-303	●	5 m	771-8992/007-503	●	1 m	771-8992/007-105	●	3 m	771-8992/007-305	●	5 m	771-8992/007-505	●	1 m	771-8992/007-107	●	3 m	771-8992/007-307	●	5 m	771-8992/007-507
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●	5 m	771-8992/007-507																													
<b>Connecting cable, socket – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black																											
		<b>Coding B</b>																													
		PVC																													
		<table border="0"> <tr><td>●</td><td>1 m</td><td>771-8992/107-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/107-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/107-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/107-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/107-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/107-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8992/107-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8992/107-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8992/107-507</td></tr> </table>			●	1 m	771-8992/107-103	●	3 m	771-8992/107-303	●	5 m	771-8992/107-503	●	1 m	771-8992/107-105	●	3 m	771-8992/107-305	●	5 m	771-8992/107-505	●	1 m	771-8992/107-107	●	3 m	771-8992/107-307	●	5 m	771-8992/107-507
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<b>Connecting cable, plug – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b> black																											
		<b>Coding B</b>																													
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●	1 m	771-8992/207-107																													
●	3 m	771-8992/207-307																													
●	5 m	771-8992/207-507																													

## Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	771	-	8	9	9	2	/	0	0	6	-	1	0	3
light green	771	-	8	9	9	2	/	0	0	6	-	1	0	5
pink	771	-	8	9	9	2	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 2-pole, socket – plug, PVC control line, 2 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 771-8992/016-107

The 10th position defines the cable cross-section. For example, a 2 x 1.5 mm<sup>2</sup> cable with light green connectors has the following item number: 771-8992/006-105

The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 771-8992/006-503

# 4 WINSTA® MIDI special Sockets and Plugs, 3-Pole

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



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket			Plug		
	gray	770-243	100	gray	770-253	100
	gray	770-243/060-000*	100	gray	770-253/060-000*	100
	gray	770-243/062-000*	100	gray	770-253/062-000*	100
	light green	770-263	100	light green	770-273	100
	light green	770-263/071-000*	100	light green	770-273/071-000*	100
	light green	770-263/073-000*	100	light green	770-273/073-000*	100
	pink	770-283	100	pink	770-293	100
	pink	770-283/081-000*	100	pink	770-293/081-000*	100
	pink	770-283/082-000*	100	pink	770-293/082-000*	100
	* Pole marking, see page 239.			* Pole marking, see page 239.		

Item-Specific Accessories							
		<b>Strain relief housing, for 2 cables, ③</b> 4.5 – 8 mm diameter black 770-503/023-000 50 white 770-513/023-000 50				<b>Strain relief housing, for 2 cables, ③</b> 4.5 – 8 mm diameter black 770-503/023-000 50 white 770-513/023-000 50	
		<b>Strain relief housing, for 2 cables, ③</b> 8.5 – 11.5 mm diameter black 770-503 50 white 770-513 50				<b>Strain relief housing, for 2 cables, ③</b> 8.5 – 11.5 mm diameter black 770-503 50 white 770-513 50	

Accessories, 770 Series							
		<b>Locking lever, for "flying leads,"</b> manually operated black 770-101 100 (4x25) white 770-121 100 (4x25)				<b>Locking lever, for "flying leads,"</b> tool operated black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Info</b>		<b>Dimensions</b>					

① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

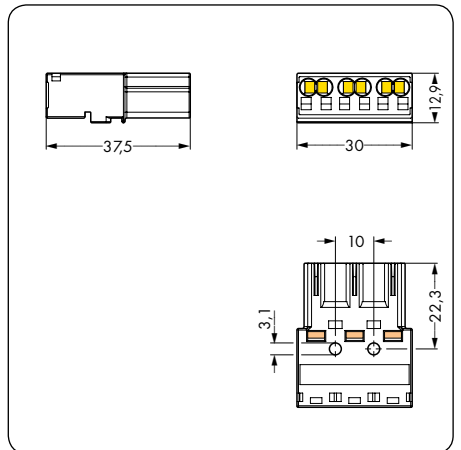
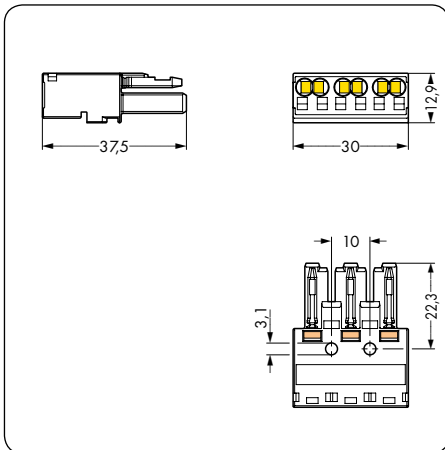
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Standard printing (without suffix number)



- gray Coding B (1 2 3)
- light green Coding B (1 2 3)
- pink Coding B (1 2 3)

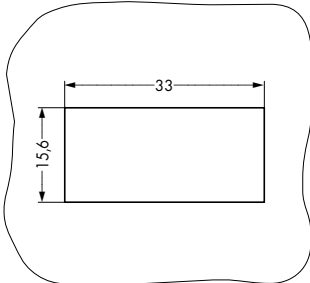
For additional pole marking, see page 227.





For coding information, see pages 224 to 226.  
Fire load data available upon request.

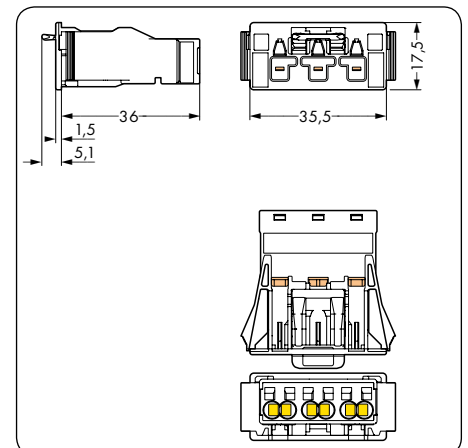
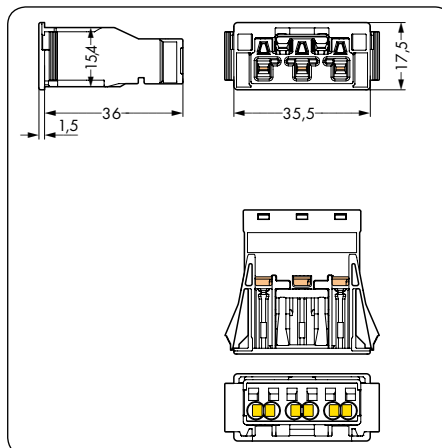


# Snap-In Sockets and Plugs, 3-Pole

<b>Cutout dimensions</b>  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 250 V/4 kV/3 I <sub>N</sub> 25 A	2 x AWG 20 – 12
	 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
<b>Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP®S connection</b>	<b>Socket</b>			<b>Plug</b>		
	● gray	770-743	100	● gray	770-753	100
	● gray	770-743/060-000*	100	● gray	770-753/060-000*	100
	● gray	770-743/062-000*	100	● gray	770-753/062-000*	100
	● light green	770-763	100	● light green	770-773	100
	● light green	770-763/071-000*	100	● light green	770-773/071-000*	100
	● light green	770-763/073-000*	100	● light green	770-773/073-000*	100
	● pink	770-783	100	● pink	770-793	100
	● pink	770-783/081-000*	100	● pink	770-793/081-000*	100
	● pink	770-783/082-000*	100	● pink	770-793/082-000*	100
	* Pole marking, see page 239.			* Pole marking, see page 239.		
<b>Item-Specific Accessories</b>						
	<b>Lockout cap, for socket, separable, 12-pole</b> 			<b>Lockout cap, for plug, separable, 5-pole</b> 		
		black	770-201 100		yellow	770-360 100
		white	770-221 100			
<b>Accessories, 770 Series</b>						
	<b>Lockout cap, for cutout, 3-pole</b> 			<b>Lockout cap, for cutout, 3-pole</b> 		
		black	770-643 100		black	770-643 100
		white	770-693 100		white	770-693 100
	<b>Dimensions</b>					





# 4 WINSTA® MIDI special PCB Connectors, 3-Pole

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	<p>250 V/4 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>	<p>250 V/4 kV/3 I<sub>N</sub> 25 A ①</p> <p>② Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	gray	770-843	100	gray	770-853	100
	light green	770-863	100	light green	770-873	100
	pink	770-883	100	pink	770-893	100
	For additional pole marking, see page 227.			For additional pole marking, see page 227.		

Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201 100 white 770-221 100			yellow 770-360 100	
				Coding pin, for plug (A and B coding)		
					gray 770-401 100	

Accessories, 770 Series						
	Locking lever, for "flying leads," manually operated			Locking lever, for "flying leads," tool operated		
		black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	

Info	Dimensions
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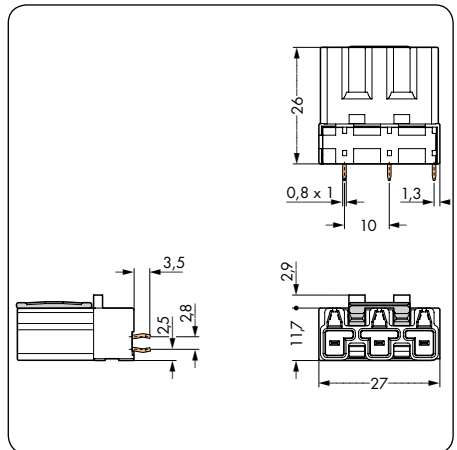
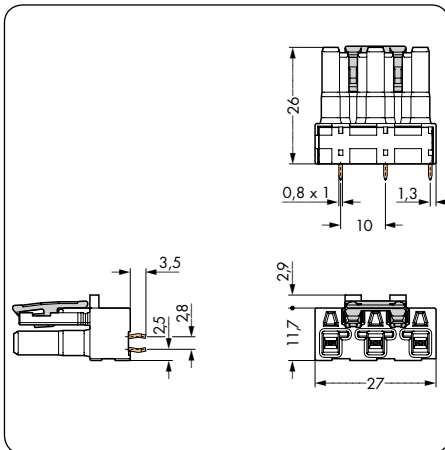
① For current load, see table on page 153.

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

● gray Coding B (1 2 3)  
 ● light green Coding B (1 2 3)  
 ● pink Coding B (1 2 3)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.



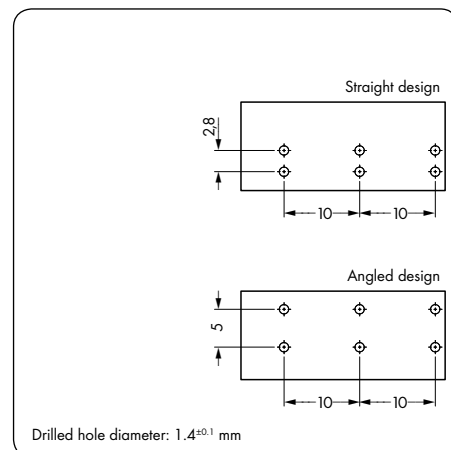
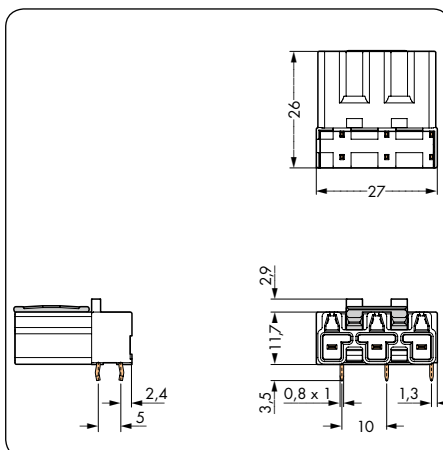
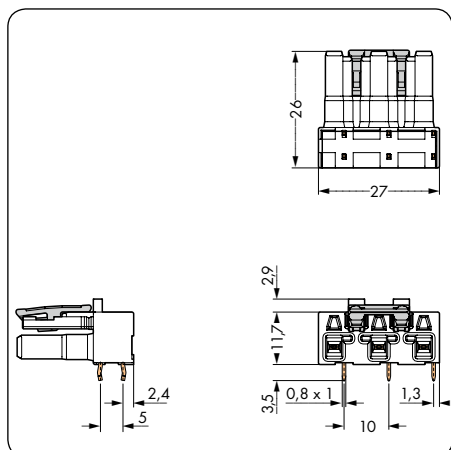
250 V/4 kV/3 $I_N$ 25 A ①  ② Approvals	250 V/4 kV/3 $I_N$ 25 A ①  ② Approvals
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① Nominal current depends on PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm <sup>2</sup>

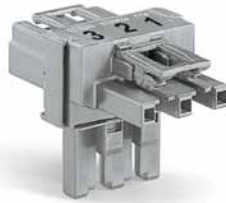
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
gray	770-843/011-000	100	gray	770-853/011-000	100
light green	770-863/011-000	100	light green	770-873/011-000	100
pink	770-883/011-000	100	pink	770-893/011-000	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201 100 white 770-221 100			yellow 770-360 100	
			<b>Coding pin, for plug (A and B coding)</b>		
			gray 770-401 100		
<b>Accessories, 770 Series</b>					
<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Dimensions</b>			<b>Hole patterns</b>		



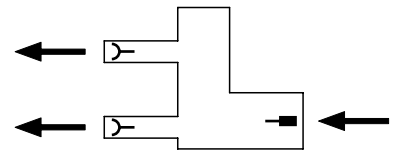
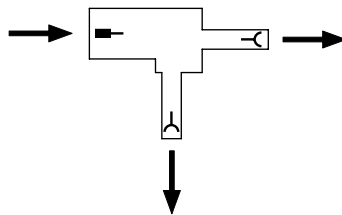
# 4 WINSTA® MIDI special T- and h-Distribution Connectors, 3-Pole

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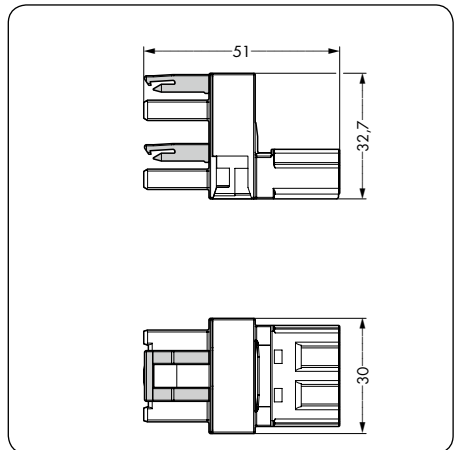
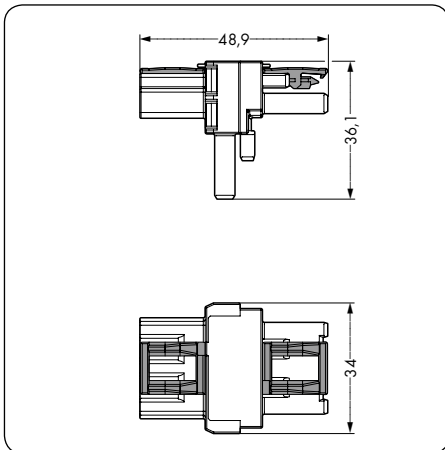
	250 V/4 kV/3 $I_N$ 25 A  ① Approvals	250 V/4 kV/3 $I_N$ 25 A  ① Approvals  <i>Available November 2013</i>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connectors, h-distribution connectors	T-distribution connector, 1 x plug / 2 x socket			h-distribution connector, unidirectional, plug / socket - socket		
	gray	770-967	50	gray	770-1661	50
	light green	770-1612	50	light green	770-1662	50
	pink	770-1613	50	pink	770-1663	50
	for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
	gray	770-970	50	gray	770-1761	50
	light green	770-1712	50	light green	770-1762	50
	pink	770-1713	50	pink	770-1763	50
For additional pole marking, see page 227.			For additional pole marking, see page 227.			
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Mounting plate, for distribution connectors		
		black 770-201 100 white 770-221 100			black 770-623 100 white 770-673 100	
	Lockout cap, for plug, separable, 5-pole			Fixing pin, for mounting plates		
		yellow 770-360 100			② black 890-601 250 ③ black 770-601 250	
				Lockout cap, for socket, separable, 12-pole		
					black 770-201 100 white 770-221 100	
<b>Info</b>	<b>Dimensions</b>					

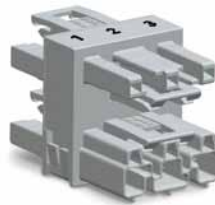






- ① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
  - ③ 6.0 mm Ø, 1 – 2.5 mm plate thickness
- 
- gray Coding B (1 2 3)
  - light green Coding B (1 2 3)
  - pink Coding B (1 2 3)
- For additional pole marking, see page 227.
- For coding information, see pages 224 to 226.  
Fire load data available upon request.

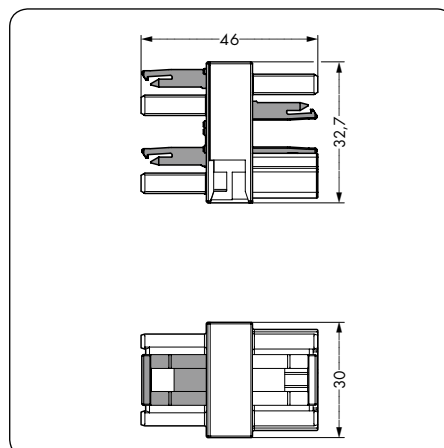
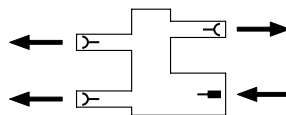


# Distribution Connectors, 3-Pole

	<p>250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p><b>1</b> Approvals</p> <p><i>Available August 2013</i></p>	
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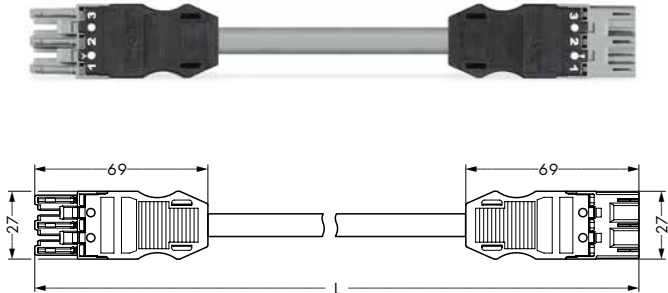
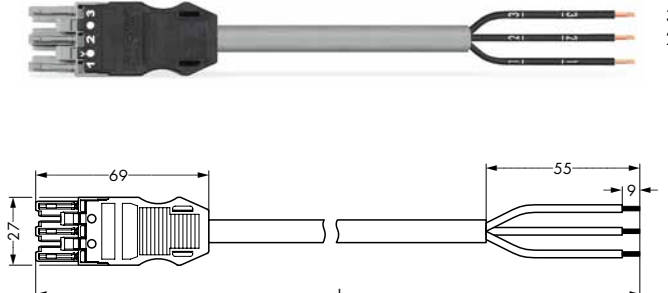
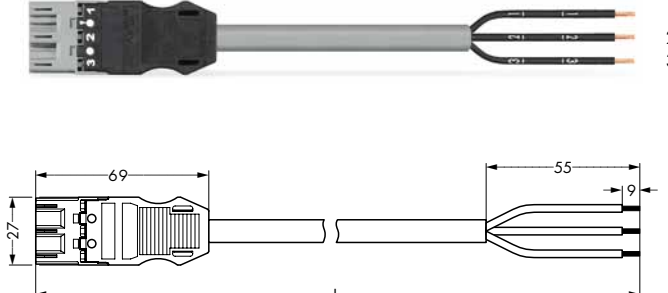


Description	Color	Item No.	Pack. Unit
<b>Distribution connectors, 3-pole</b>	<b>Distribution connector, 3-way, 1 x plug / 3 x socket</b>		
	gray	<b>770-1714</b>	50
	light green	<b>770-1715</b>	50
	pink	<b>770-1716</b>	50
	For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>			
	<b>Mounting plate, for distribution connectors</b>		
		black <b>770-623</b>	25
		white <b>770-673</b>	25
	<b>Fixing pin, for mounting plates</b>		
		<b>2</b> black <b>890-601</b>	250
		<b>3</b> black <b>770-601</b>	250
	<b>Lockout cap, for socket, separable, 12-pole</b>		
		black <b>770-201</b>	100
		white <b>770-221</b>	100
	<b>Lockout cap, for plug, separable, 5-pole</b>		
		yellow <b>770-360</b>	100
	<b>Dimensions</b>		



# 4 WINSTA® MIDI special Cable Assemblies 3 x 1.5 mm<sup>2</sup>

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	<p>PVC Control line: 3 x 1.5, gray</p> <p>250 V/4 kV/3 I<sub>N</sub> 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																											
<p>Interconnecting cable, socket – plug</p> 	<p>Color Length Item No. black</p> <p>Coding B PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-9993/006-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/006-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/006-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/006-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/006-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/006-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/006-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/006-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/006-507</td></tr> </table>	●	1 m	771-9993/006-103	●	3 m	771-9993/006-303	●	5 m	771-9993/006-503	●	1 m	771-9993/006-105	●	3 m	771-9993/006-305	●	5 m	771-9993/006-505	●	1 m	771-9993/006-107	●	3 m	771-9993/006-307	●	5 m	771-9993/006-507
●	1 m	771-9993/006-103																										
●	3 m	771-9993/006-303																										
●	5 m	771-9993/006-503																										
●	1 m	771-9993/006-105																										
●	3 m	771-9993/006-305																										
●	5 m	771-9993/006-505																										
●	1 m	771-9993/006-107																										
●	3 m	771-9993/006-307																										
●	5 m	771-9993/006-507																										
<p>Connecting cable, socket – free end</p> 	<p>Color Length Item No. black</p> <p>Coding B PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-9993/106-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/106-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/106-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/106-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/106-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/106-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/106-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/106-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/106-507</td></tr> </table>	●	1 m	771-9993/106-103	●	3 m	771-9993/106-303	●	5 m	771-9993/106-503	●	1 m	771-9993/106-105	●	3 m	771-9993/106-305	●	5 m	771-9993/106-505	●	1 m	771-9993/106-107	●	3 m	771-9993/106-307	●	5 m	771-9993/106-507
●	1 m	771-9993/106-103																										
●	3 m	771-9993/106-303																										
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●	1 m	771-9993/106-105																										
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●	5 m	771-9993/106-505																										
●	1 m	771-9993/106-107																										
●	3 m	771-9993/106-307																										
●	5 m	771-9993/106-507																										
<p>Connecting cable, plug – free end</p> 	<p>Color Length Item No. black</p> <p>Coding B PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-9993/206-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/206-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/206-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/206-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/206-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/206-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-9993/206-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-9993/206-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-9993/206-507</td></tr> </table>	●	1 m	771-9993/206-103	●	3 m	771-9993/206-303	●	5 m	771-9993/206-503	●	1 m	771-9993/206-105	●	3 m	771-9993/206-305	●	5 m	771-9993/206-505	●	1 m	771-9993/206-107	●	3 m	771-9993/206-307	●	5 m	771-9993/206-507
●	1 m	771-9993/206-103																										
●	3 m	771-9993/206-303																										
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●	1 m	771-9993/206-105																										
●	3 m	771-9993/206-305																										
●	5 m	771-9993/206-505																										
●	1 m	771-9993/206-107																										
●	3 m	771-9993/206-307																										
●	5 m	771-9993/206-507																										
<p>Info</p>	<p>Accessories</p>																											

① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.

For other cables, please contact factory.

- gray Coding B (1 2 3)
- light green Coding B (1 2 3)
- pink Coding B (1 2 3)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.

**Locking lever, for "flying leads,"**



manually operated
black 770-101 100 (4x25)
white 770-121 100 (4x25)

**Locking lever, for "flying leads,"**



tool operated
black 770-111 100 (4x25)
white 770-131 100 (4x25)

**Lockout cap, for socket, separable, 12-pole**



black 770-201 100
white 770-221 100

**Marker, for manual marking**



white 770-450 50
------------------

# Cable Assemblies 3 x 2.5 mm<sup>2</sup>

		PVC	Control line: 3 x 2.5, gray		
		250 V/4 kV/3 I <sub>N</sub> 20 A			
		Conductor ends, bonded: 9 mm			
		① Approvals			
<b>Interconnecting cable, socket – plug</b>		Color	Length	Item No.	
		black			
		Coding B			
		PVC			
		●	1 m	771-4993/007-103	
		●	3 m	771-4993/007-303	
		●	5 m	771-4993/007-503	
		●	1 m	771-4993/007-105	
		●	3 m	771-4993/007-305	
		●	5 m	771-4993/007-505	
		●	1 m	771-4993/007-107	
		●	3 m	771-4993/007-307	
		●	5 m	771-4993/007-507	
<b>Connecting cable, socket – free end</b>		Color	Length	Item No.	
		black			
		Coding B			
		PVC			
		●	1 m	771-4993/107-103	
		●	3 m	771-4993/107-303	
		●	5 m	771-4993/107-503	
		●	1 m	771-4993/107-105	
		●	3 m	771-4993/107-305	
		●	5 m	771-4993/107-505	
		●	1 m	771-4993/107-107	
		●	3 m	771-4993/107-307	
		●	5 m	771-4993/107-507	
<b>Connecting cable, plug – free end</b>		Color	Length	Item No.	
		black			
		Coding B			
		PVC			
		●	1 m	771-4993/207-103	
		●	3 m	771-4993/207-303	
		●	5 m	771-4993/207-503	
		●	1 m	771-4993/207-105	
		●	3 m	771-4993/207-305	
		●	5 m	771-4993/207-505	
		●	1 m	771-4993/207-107	
		●	3 m	771-4993/207-307	
		●	5 m	771-4993/207-507	

### Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	771	-	9	9	9	3	/	0	0	6	-	1	0	3
light green	771	-	9	9	9	3	/	0	0	6	-	1	0	5
pink	771	-	9	9	9	3	/	0	0	6	-	1	0	7



The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 3-pole, socket – plug, PVC control line, 3 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 771-9993/016-107

The 10th position defines the cable cross-section. For example, a 3 x 1 mm<sup>2</sup> cable with light green connectors has the following item number: 771-9993/005-105





The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 771-9993/006-503



# WINSTA® MIDI special Sockets and Plugs, 4-Pole

<p>2 x 0.5 – 4 mm<sup>2</sup> ❶   2 x AWG 20 – 12                  400 V/6 kV/3                  I<sub>N</sub> 25 A ❸</p> <p> 9 mm / 0.35 in                  ❷ Approvals</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ❶   2 x AWG 20 – 12                  400 V/6 kV/3                  I<sub>N</sub> 25 A ❸</p> <p> 9 mm / 0.35 in                  ❷ Approvals</p>
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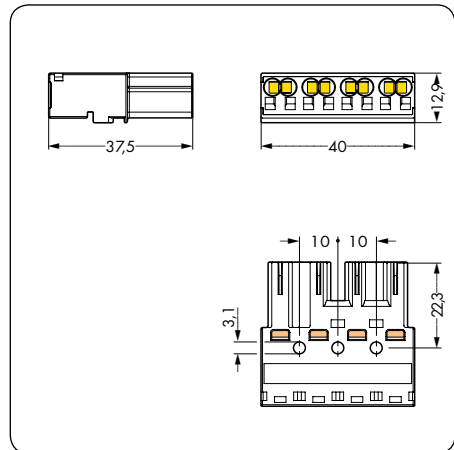
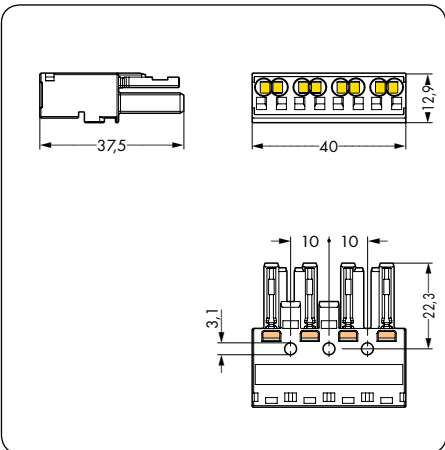
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	770-244	50	gray	770-254	50
	gray	770-244/060-000*	50	gray	770-254/060-000*	50
	gray	770-244/062-000*	50	gray	770-254/062-000*	50
	gray	770-244/064-000*	50	gray	770-254/064-000*	50
	light green	770-264	50	light green	770-274	50
	light green	770-264/071-000*	50	light green	770-274/071-000*	50
	light green	770-264/072-000*	50	light green	770-274/072-000*	50
	light green	770-264/073-000*	50	light green	770-274/073-000*	50
	pink	770-284	50	pink	770-294	50
pink	770-284/081-000*	50	pink	770-294/081-000*	50	
			* Pole marking, see page 227.			
			* Pole marking, see page 227.			

Item-Specific Accessories							
		<b>Strain relief housing, for 2 cables,</b> 5 – 9 mm diameter 				<b>Strain relief housing, for 2 cables,</b> 5 – 9 mm diameter 	
		black	770-504/023-000	50	black	770-504/023-000	50
		white	770-514/023-000	50	white	770-514/023-000	50
		<b>Strain relief housing, for 2 cables,</b> 9 – 13 mm diameter 				<b>Strain relief housing, for 2 cables,</b> 9 – 13 mm diameter 	
		black	770-504	50	black	770-504	50
		white	770-514	50	white	770-514	50

Accessories, 770 Series							
		<b>Locking lever, for "flying leads,"</b> manually operated 				<b>Locking lever, for "flying leads,"</b> tool operated 	
		black	770-101	100 (4x25)	black	770-111	100 (4x25)
		white	770-121	100 (4x25)	white	770-131	100 (4x25)



Info	Dimensions
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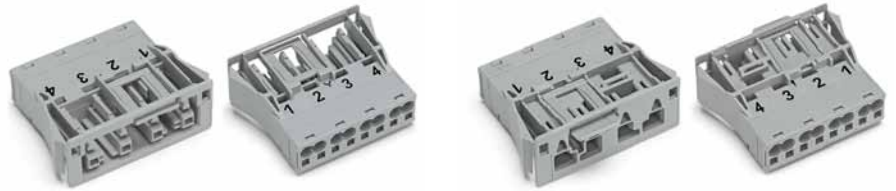
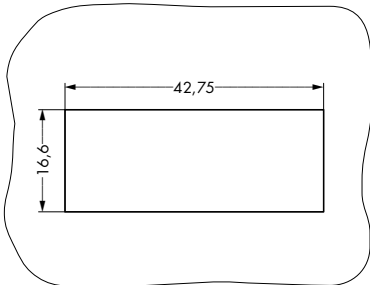
- ❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
  - ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ❸ Full rated current can only be applied to a maximum of 3 poles!
- Standard printing (without suffix number)
- gray Coding B (1 2 3 4)
  - light green Coding B (1 2 3 4)
  - pink Coding B (1 2 3 4)
- For additional pole marking, see page 227.
- For coding information, see pages 224 to 226.  
 Fire load data available upon request.









# Snap-In Sockets and Plugs, 4-Pole

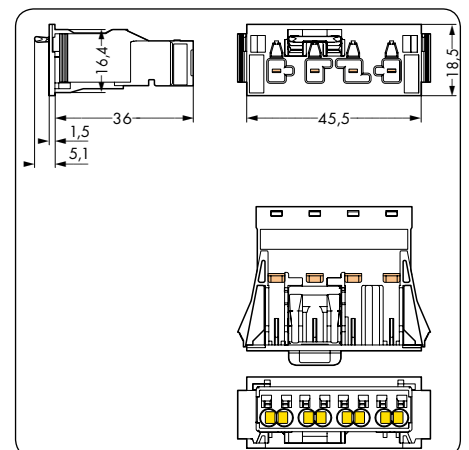
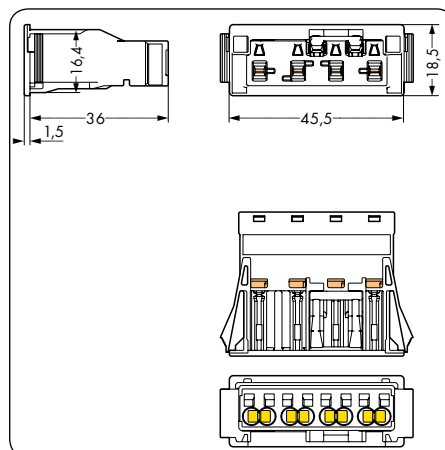
Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A ③	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A ③	2 x AWG 20 – 12
	 9 mm / 0.35 in ② Approvals		 9 mm / 0.35 in ② Approvals	



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP®S connection	Socket			Plug		
	gray	770-744	50	gray	770-754	50
	gray	770-744/060-000*	50	gray	770-754/060-000*	50
	gray	770-744/062-000*	50	gray	770-754/062-000*	50
	gray	770-744/064-000*	50	gray	770-754/064-000*	50
	light green	770-764	50	light green	770-774	50
	light green	770-764/071-000*	50	light green	770-774/071-000*	50
	light green	770-764/072-000*	50	light green	770-774/072-000*	50
	light green	770-764/073-000*	50	light green	770-774/073-000*	50
	pink	770-784	50	pink	770-794	50
pink	770-784/081-000*	50	pink	770-794/081-000*	50	
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories						
			Lockout cap, for socket, separable, 12-pole 	Lockout cap, for plug, separable, 5-pole 		
		black	770-201	100	yellow	770-360
		white	770-221	100		




Accessories, 770 Series						
			Lockout cap, for cutout, 4-pole 	Lockout cap, for cutout, 4-pole 		
		black	770-644	100	black	770-644
		white	770-694	100	white	770-694
<b>Dimensions</b>						





	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ① ③</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ① ③</p> <p>② Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	gray	770-844	100	gray	770-854	100
	light green	770-864	100	light green	770-874	100
	pink	770-884	100	pink	770-894	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.			

Item-Specific Accessories							
			<p>Lockout cap, for socket, separable, 12-pole</p>  <p>black 770-201 100 white 770-221 100</p>				<p>Lockout cap, for plug, separable, 5-pole</p>  <p>yellow 770-360 100</p>
						<p>Coding pin, for plug (A and B coding)</p>  <p>gray 770-401 100</p>	

Accessories, 770 Series							
			<p>Locking lever, for "flying leads," manually operated</p>  <p>black 770-101 100 (4x25) white 770-121 100 (4x25)</p>				<p>Locking lever, for "flying leads," tool operated</p>  <p>black 770-111 100 (4x25) white 770-131 100 (4x25)</p>

Info	Dimensions
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① For current load, see table on page 161.

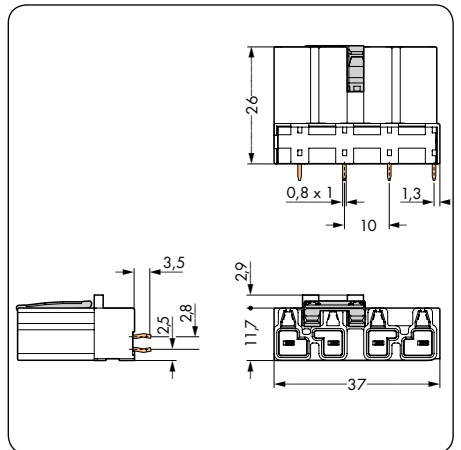
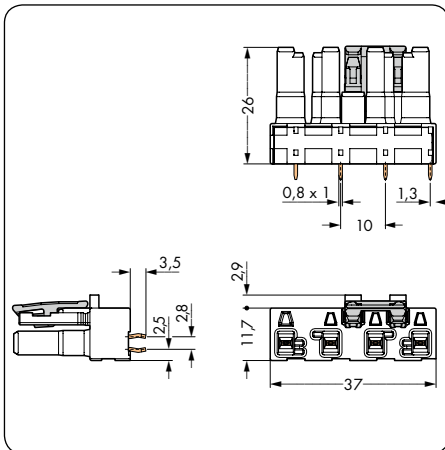
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

③ Full rated current can only be applied to a maximum of 3 poles!

● gray Coding B (1 2 3 4)  
 ● light green Coding B (1 2 3 4)  
 ● pink Coding B (1 2 3 4)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.



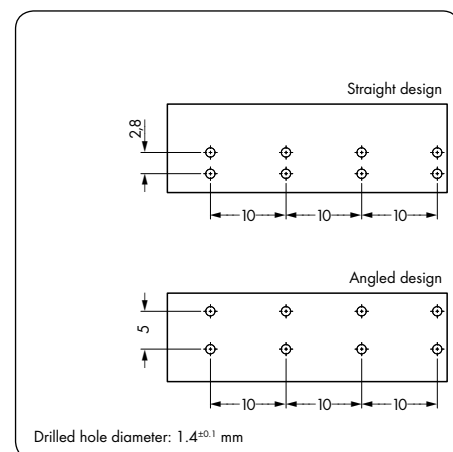
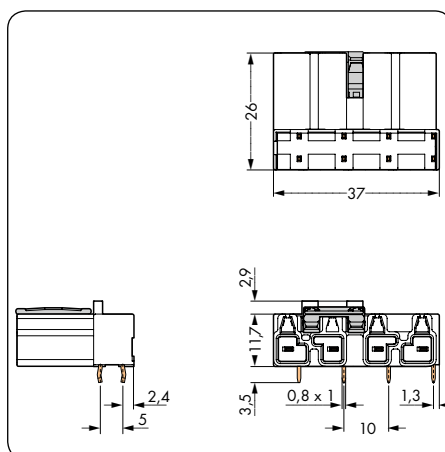
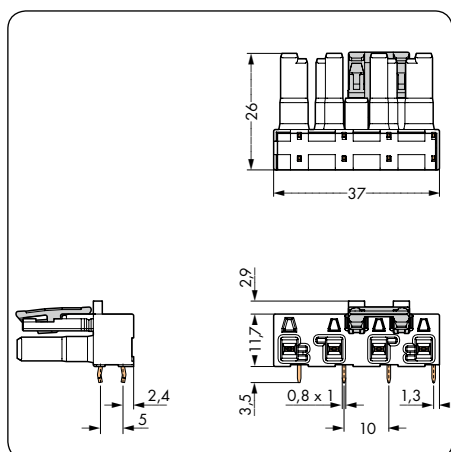
400 V/6 kV/3 $I_N$ 25 A ① ③  ② Approvals	400 V/6 kV/3 $I_N$ 25 A ① ③  ② Approvals
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① Nominal current depends on PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm <sup>2</sup>

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
gray	770-844/011-000	100	gray	770-854/011-000	100
light green	770-864/011-000	100	light green	770-874/011-000	100
pink	770-884/011-000	100	pink	770-894/011-000	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201 100 white 770-221 100			yellow 770-360 100	
			<b>Coding pin, for plug (A and B coding)</b>		
			gray 770-401 100		
<b>Accessories, 770 Series</b>					
<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Dimensions</b>			<b>Hole patterns</b>		



# 4 WINSTA® MIDI special

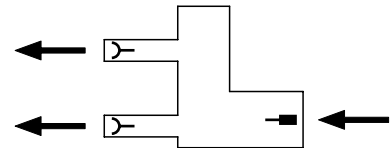
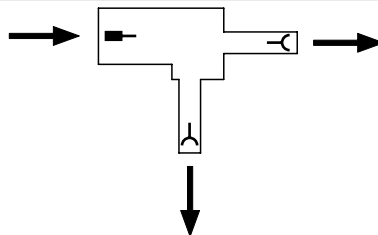
## T- and h-Distribution Connectors, 4-Pole

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	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ④</p> <p>① Approvals</p> <p style="text-align: right;"><i>Available August 2013</i></p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ④</p> <p>① Approvals</p> <p style="text-align: right;"><i>Available November 2013</i></p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connectors, h-distribution connectors, 4-pole	T-distribution connector, 1 x plug / 2 x socket			h-distribution connector, unidirectional, plug / socket - socket		
	gray	770-1631	50	gray	770-1681	50
	light green	770-1632	50	light green	770-1682	50
	pink	770-1633	50	pink	770-1683	50
	for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
	gray	770-1731	50	gray	770-1781	50
	light green	770-1732	50	light green	770-1782	50
	pink	770-1733	50	pink	770-1783	50
For additional pole marking, see page 227.			For additional pole marking, see page 227.			
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Mounting plate, for distribution connectors		
		black 770-201 100 white 770-221 100			black 770-624 25 white 770-674 25	
	Lockout cap, for plug, separable, 5-pole			Fixing pin, for mounting plates		
		yellow 770-360 100			② black 890-601 250 ③ black 770-601 250	
				Lockout cap, for socket, separable, 12-pole		
					black 770-201 100 white 770-221 100	
<b>Info</b>	<b>Dimensions</b>					



① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness

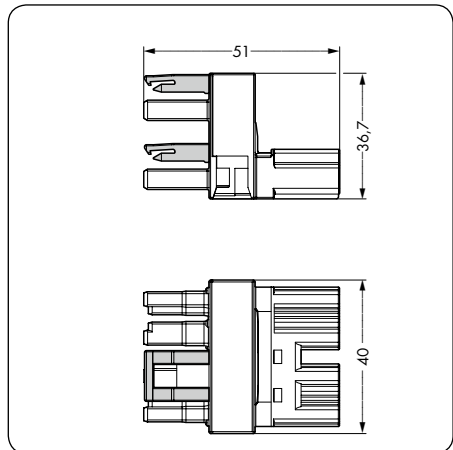
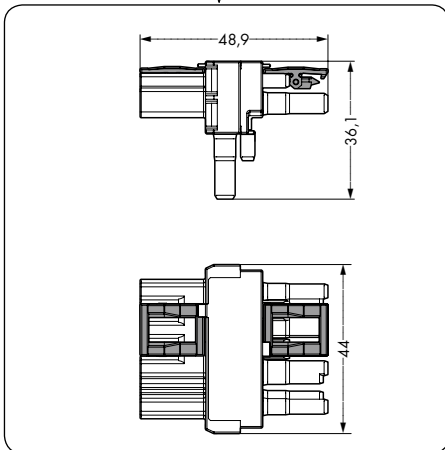
③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

④ Full rated current can only be applied to a maximum of 3 poles!

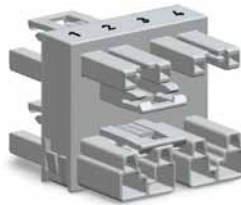
gray Coding B (1 2 3 4)  
light green Coding B (1 2 3 4)  
pink Coding B (1 2 3 4)





For additional pole marking, see page 227.

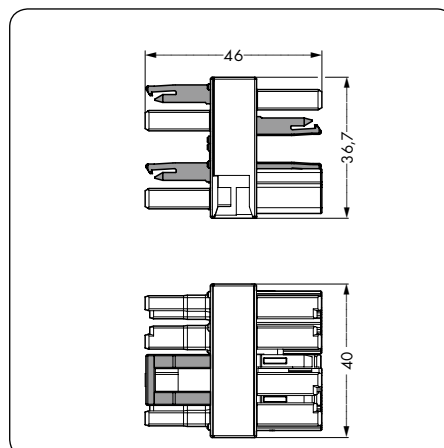
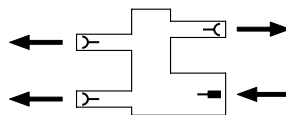
For coding information, see pages 224 to 226.  
Fire load data available upon request.



	<p>250 V/4 kV/3 I<sub>N</sub> 25 A</p> <p>Available August 2013</p> <p>1 Approvals</p>	
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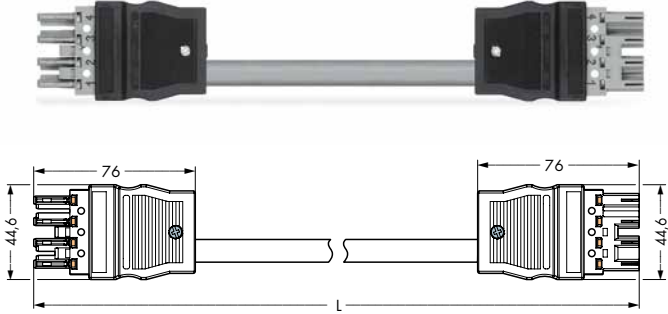
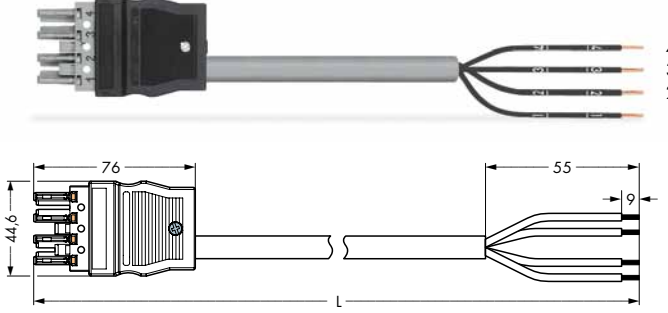
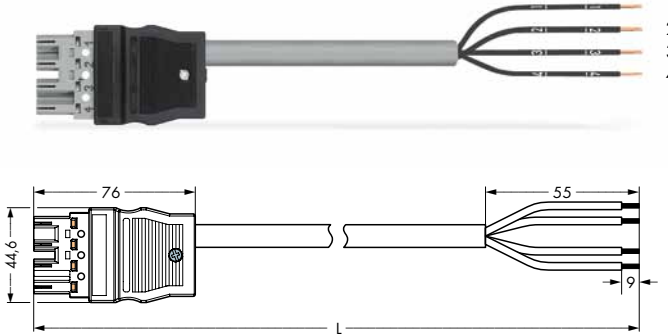














Description	Color	Item No.	Pack. Unit
<b>Distribution connectors, 4-pole</b>	<b>Distribution connector, 3-way, 1 x plug / 3 x socket</b>		
	gray	770-1734	50
	light green	770-1735	50
	pink	770-1736	50
	For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>			
	<b>Mounting plate, for distribution connectors</b>		
		black 770-624	25
		white 770-674	25
	<b>Fixing pin, for mounting plates</b>		
		2 black 890-601	250
		3 black 770-601	250
	<b>Lockout cap, for socket, separable, 12-pole</b>		
		black 770-201	100
		white 770-221	100
	<b>Lockout cap, for plug, separable, 5-pole</b>		
		yellow 770-360	100
	<b>Dimensions</b>		



# 4 WINSTA® MIDI special Cable Assemblies 4 x 1.5 mm<sup>2</sup>

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	<p>PVC Control line: 4 x 1.5, gray</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A ②</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																																
<p>Interconnecting cable, socket – plug</p>	<p>Color Length Item No. black</p>																																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8994/006-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/006-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/006-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/006-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/006-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/006-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/006-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/006-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/006-507</td></tr> </table>	●	1 m	771-8994/006-103	●	3 m	771-8994/006-303	●	5 m	771-8994/006-503	●	1 m	771-8994/006-105	●	3 m	771-8994/006-305	●	5 m	771-8994/006-505	●	1 m	771-8994/006-107	●	3 m	771-8994/006-307	●	5 m	771-8994/006-507																					
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●	5 m	771-8994/006-507																																															
<p>Connecting cable, socket – free end</p>	<p>Color Length Item No. black</p>																																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8994/106-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/106-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/106-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/106-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/106-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/106-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/106-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/106-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/106-507</td></tr> </table>	●	1 m	771-8994/106-103	●	3 m	771-8994/106-303	●	5 m	771-8994/106-503	●	1 m	771-8994/106-105	●	3 m	771-8994/106-305	●	5 m	771-8994/106-505	●	1 m	771-8994/106-107	●	3 m	771-8994/106-307	●	5 m	771-8994/106-507																					
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<p>Connecting cable, plug – free end</p>	<p>Color Length Item No. black</p>																																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8994/206-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/206-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/206-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/206-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/206-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/206-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8994/206-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8994/206-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8994/206-507</td></tr> </table>	●	1 m	771-8994/206-103	●	3 m	771-8994/206-303	●	5 m	771-8994/206-503	●	1 m	771-8994/206-105	●	3 m	771-8994/206-305	●	5 m	771-8994/206-505	●	1 m	771-8994/206-107	●	3 m	771-8994/206-307	●	5 m	771-8994/206-507																					
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<p>Info</p>	<p>Accessories</p>																																																
<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>② Full rated current can only be applied to a maximum of 3 poles!</p> <p>For other cables, please contact factory.</p> <table border="1"> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2 3 4)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2 3 4)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2 3 4)</td></tr> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2 3 4)	●	light green	Coding B	(1 2 3 4)	●	pink	Coding B	(1 2 3 4)	<p>Locking lever, for "flying leads,"</p> <table border="1"> <tr><td></td><td>manually operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>770-101</td><td>100 (4x25)</td></tr> <tr><td></td><td>white</td><td>770-121</td><td>100 (4x25)</td></tr> </table> <p>Locking lever, for "flying leads,"</p> <table border="1"> <tr><td></td><td>tool operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>770-111</td><td>100 (4x25)</td></tr> <tr><td></td><td>white</td><td>770-131</td><td>100 (4x25)</td></tr> </table> <p>Lockout cap, for socket, separable, 12-pole</p> <table border="1"> <tr><td></td><td>black</td><td>770-201</td><td>100</td></tr> <tr><td></td><td>white</td><td>770-221</td><td>100</td></tr> </table> <p>Lockout cap, for plug, separable, 5-pole</p> <table border="1"> <tr><td></td><td>yellow</td><td>770-360</td><td>100</td></tr> </table>		manually operated				black	770-101	100 (4x25)		white	770-121	100 (4x25)		tool operated				black	770-111	100 (4x25)		white	770-131	100 (4x25)		black	770-201	100		white	770-221	100		yellow	770-360	100
●	gray	Coding B	(1 2 3 4)																																														
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	white	770-221	100																																														
	yellow	770-360	100																																														

# Cable Assemblies 4 x 2.5 mm<sup>2</sup>

		PVC	Control line: 4 x 2.5, gray	
		400 V/6 kV/3 I <sub>N</sub> 20 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
<b>Interconnecting cable, socket – plug</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>
		black		
		Coding B		
		PVC		
		●	1 m	771-8994/007-103
		●	3 m	771-8994/007-303
		●	5 m	771-8994/007-503
		●	1 m	771-8994/007-105
		●	3 m	771-8994/007-305
		●	5 m	771-8994/007-505
		●	1 m	771-8994/007-107
		●	3 m	771-8994/007-307
		●	5 m	771-8994/007-507
<b>Connecting cable, socket – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>
		black		
		Coding B		
		PVC		
		●	1 m	771-8994/107-103
		●	3 m	771-8994/107-303
		●	5 m	771-8994/107-503
		●	1 m	771-8994/107-105
		●	3 m	771-8994/107-305
		●	5 m	771-8994/107-505
		●	1 m	771-8994/107-107
		●	3 m	771-8994/107-307
		●	5 m	771-8994/107-507
<b>Connecting cable, plug – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>
		black		
		Coding B		
		PVC		
		●	1 m	771-8994/207-103
		●	3 m	771-8994/207-303
		●	5 m	771-8994/207-503
		●	1 m	771-8994/207-105
		●	3 m	771-8994/207-305
		●	5 m	771-8994/207-505
		●	1 m	771-8994/207-107
		●	3 m	771-8994/207-307
		●	5 m	771-8994/207-507

### Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	771	-	8	9	9	4	/	0	0	6	-	1	0	3
light green	771	-	8	9	9	4	/	0	0	6	-	1	0	5
pink	771	-	8	9	9	4	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 4-pole, socket – plug, PVC control line, 4 x 1.5 mm<sup>2</sup>, 1 m



The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 771-8994/016-107

The 10th position defines the cable cross-section. For example, a 4 x 1.5 mm<sup>2</sup> cable with light green connectors has the following item number: 771-8994/006-105

The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 771-8994/006-503









# WINSTA® MIDI special Sockets and Plugs, 5-Pole

<p>2 x 0.5 – 4 mm<sup>2</sup> ①   2 x AWG 20 – 12</p> <p>400 V/6 kV/3  </p> <p>I<sub>N</sub> 25 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x 0.5 – 4 mm<sup>2</sup> ①   2 x AWG 20 – 12</p> <p>400 V/6 kV/3  </p> <p>I<sub>N</sub> 25 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	● gray	770-245	50	● gray	770-255	50
	● gray	770-245/060-000*	50	● gray	770-255/060-000*	50
	● gray	770-245/062-000*	50	● gray	770-255/062-000*	50
	● gray	770-245/064-000*	50	● gray	770-255/064-000*	50
	● light green	770-265	50	● light green	770-275	50
	● light green	770-265/073-000*	50	● light green	770-275/073-000*	50
	● pink	770-285	50	● pink	770-295	50
	● pink	770-285/080-000*	50	● pink	770-295/080-000*	50
	● pink	770-285/082-000*	50	● pink	770-295/082-000*	50
	* Pole marking, see page 227.			* Pole marking, see page 227.		

Item-Specific Accessories						
	<b>Strain relief housing, for 2 cables, ④</b> 5 – 9 mm diameter  black 770-505/023-000 25 white 770-515/023-000 25			<b>Strain relief housing, for 2 cables, ④</b> 5 – 9 mm diameter  black 770-505/023-000 25 white 770-515/023-000 25		
	<b>Strain relief housing, for 2 cables, ④</b> 9 – 13 mm diameter  black 770-505 25 white 770-515 25			<b>Strain relief housing, for 2 cables, ④</b> 9 – 13 mm diameter  black 770-505 25 white 770-515 25		

Accessories, 770 Series						
	<b>Locking lever, for "flying leads,"</b> manually operated  black 770-101 100 (4x25) white 770-121 100 (4x25)			<b>Locking lever, for "flying leads,"</b> tool operated  black 770-111 100 (4x25) white 770-131 100 (4x25)		

Info	Dimensions
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① Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"

② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

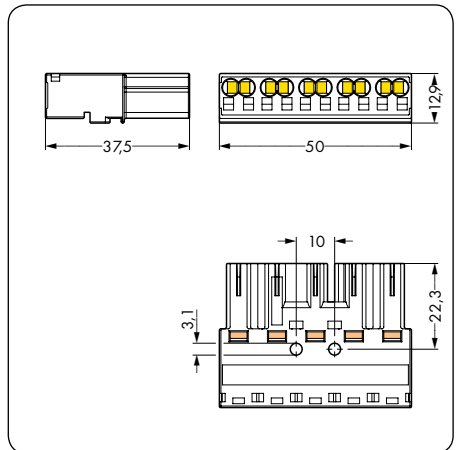
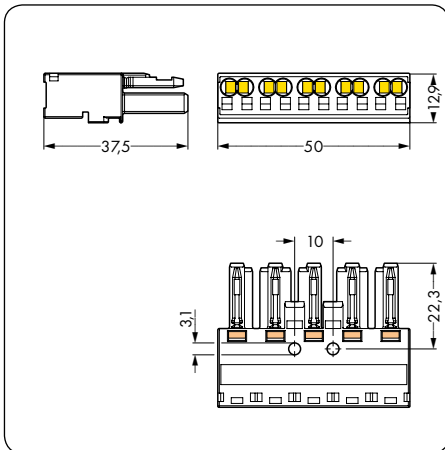
③ Full rated current can only be applied to a maximum of 3 poles!

Standard printing (without suffix number)



- gray Coding B (1 2 3 4 5)
- light green Coding B (1 2 3 4 5)
- pink Coding B (1 2 3 4 5)

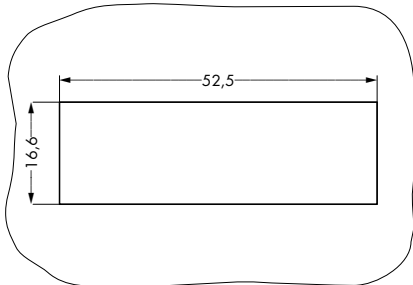
For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.







# Snap-In Sockets and Plugs, 5-Pole

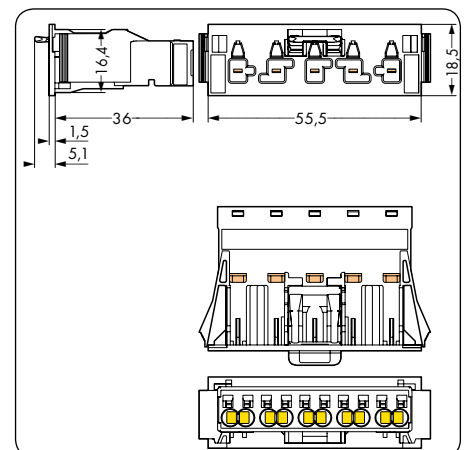
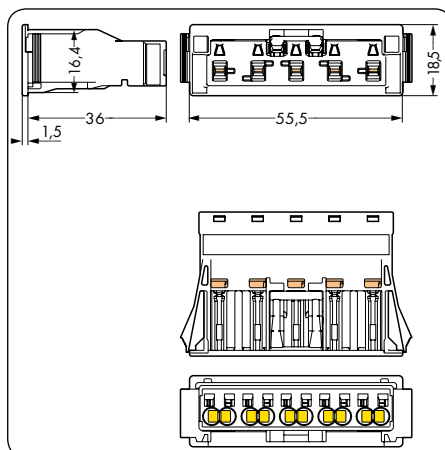
Cutout dimensions  Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A ③	2 x AWG 20 – 12	2 x 0.5 – 4 mm <sup>2</sup> ① 400 V/6 kV/3 I <sub>N</sub> 25 A ③	2 x AWG 20 – 12
	 9 mm / 0.35 in ② Approvals		 9 mm / 0.35 in ② Approvals	



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 5-pole, with CAGE CLAMP® S connection	Socket			Plug		
	gray	770-745	50	gray	770-755	50
	gray	770-745/060-000*	50	gray	770-755/060-000*	50
	gray	770-745/062-000*	50	gray	770-755/062-000*	50
	gray	770-745/064-000*	50	gray	770-755/064-000*	50
	light green	770-765	50	light green	770-775	50
	light green	770-765/073-000*	50	light green	770-775/073-000*	50
	pink	770-785	50	pink	770-795	50
	pink	770-785/080-000*	50	pink	770-795/080-000*	50
	pink	770-785/082-000*	50	pink	770-795/082-000*	50
* Pole marking, see page 227.			* Pole marking, see page 227.			

Item-Specific Accessories						
Lockout cap, for socket, separable, 12-pole 			Lockout cap, for plug, separable, 5-pole 			
	black	770-201	100		yellow	770-360
	white	770-221	100			

Accessories, 770 Series						
Lockout cap, for cutout, 5-pole 			Lockout cap, for cutout, 5-pole 			
	black	770-645	100		black	770-645
	white	770-695	100		white	770-695
<b>Dimensions</b>						



# 4 WINSTA® MIDI special




## PCB Connectors, 5-Pole



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	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ① ③</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ① ③</p> <p>② Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	gray	770-845	100	gray	770-855	100
	light green	770-865	100	light green	770-875	100
	pink	770-885	100	pink	770-895	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.			

Item-Specific Accessories							
			<p>Lockout cap, for socket, separable, 12-pole</p>  <p>black 770-201 100 white 770-221 100</p>				<p>Lockout cap, for plug, separable, 5-pole</p>  <p>yellow 770-360 100</p>
						<p>Coding pin, for plug (A and B coding)</p>  <p>gray 770-401 100</p>	

Accessories, 770 Series							
			<p>Locking lever, for "flying leads," manually operated</p>  <p>black 770-101 100 (4x25) white 770-121 100 (4x25)</p>				<p>Locking lever, for "flying leads," tool operated</p>  <p>black 770-111 100 (4x25) white 770-131 100 (4x25)</p>

Info	Dimensions
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① For current load, see table on page 169.

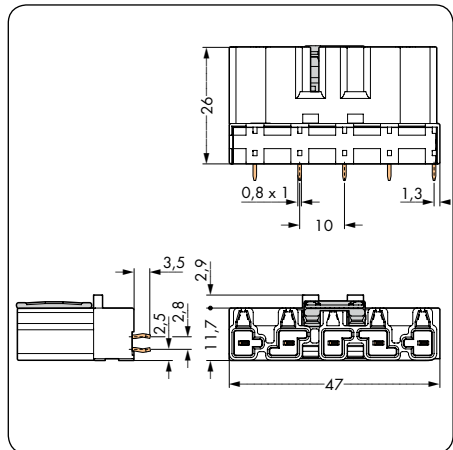
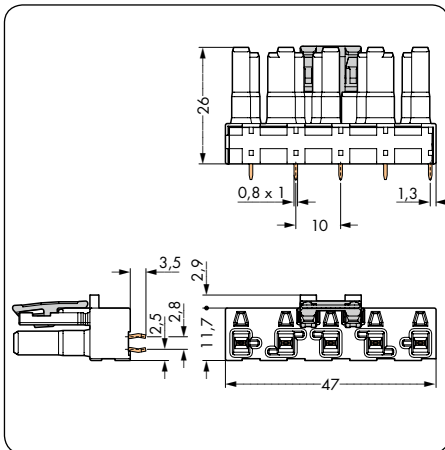
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

③ Full rated current can only be applied to a maximum of 3 poles!

● gray Coding B (1 2 3 4 5)  
 ● light green Coding B (1 2 3 4 5)  
 ● pink Coding B (1 2 3 4 5)

For additional pole marking, see page 227.

For coding information, see pages 224 to 226.  
Fire load data available upon request.



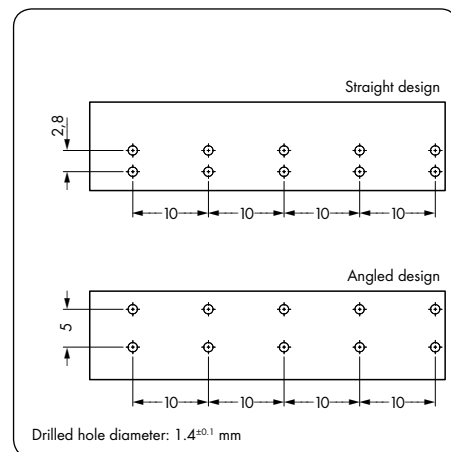
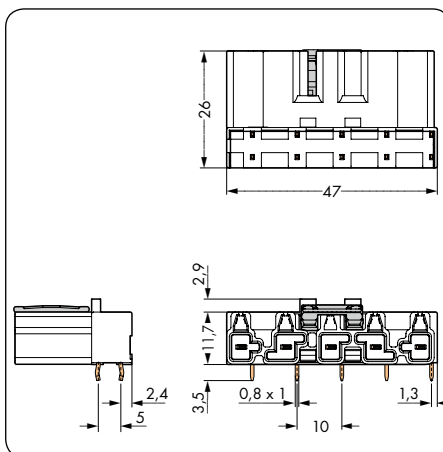
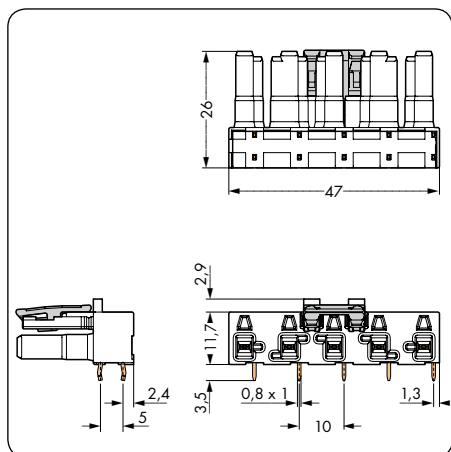
400 V/6 kV/3 $I_N$ 25 A ① ③  ② Approvals	400 V/6 kV/3 $I_N$ 25 A ① ③  ② Approvals
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① Nominal current depends on PCB track dimensions

Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm <sup>2</sup>
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm <sup>2</sup>

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Socket, angled</b>			<b>Plug, angled</b>		
gray	770-845/011-000	100	gray	770-855/011-000	100
light green	770-865/011-000	100	light green	770-875/011-000	100
pink	770-885/011-000	100	pink	770-895/011-000	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>					
<b>Lockout cap, for socket, separable, 12-pole</b>			<b>Lockout cap, for plug, separable, 5-pole</b>		
	black 770-201 100 white 770-221 100			yellow 770-360 100	
			<b>Coding pin, for plug (A and B coding)</b>		
			gray 770-401 100		
<b>Accessories, 770 Series</b>					
<b>Locking lever, for "flying leads," manually operated</b>			<b>Locking lever, for "flying leads," tool operated</b>		
	black 770-101 100 (4x25) white 770-121 100 (4x25)			black 770-111 100 (4x25) white 770-131 100 (4x25)	
<b>Dimensions</b>			<b>Hole patterns</b>		



# 4 WINSTA® MIDI special

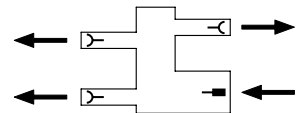
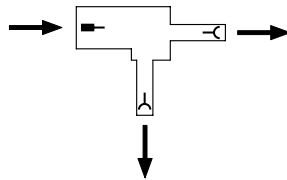
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## T-Distribution Connectors and Distribution Connectors, 5-Pole

	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ④</p> <p>① Approvals</p> <p style="text-align: right;"><i>Available August 2013</i></p>	<p>400 V/6 kV/3 I<sub>N</sub> 25 A ④</p> <p>① Approvals</p> <p style="text-align: right;"><i>Available August 2013</i></p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connectors, distribution connectors, 5-pole	T-distribution connector, 1 x plug / 2 x socket					
	gray	770-1641	50	gray	770-1744	25
	light green	770-1642	50	light green	770-1745	25
	pink	770-1643	50	pink	770-1746	25
	for "flying leads," with 3rd locking lever					
	gray	770-1741	50			
	light green	770-1742	50			
	pink	770-1743	50			
			For additional pole marking, see page 227.	For additional pole marking, see page 227.		
<b>Item-Specific Accessories</b>						
	Lockout cap, for socket, separable, 12-pole			Mounting plate, for distribution connectors		
		black 770-201 100 white 770-221 100			black 770-625 25 white 770-675 25	
	Lockout cap, for plug, separable, 5-pole			Fixing pin, for mounting plates		
		yellow 770-360 100			② black 890-601 250 ③ black 770-601 250	
				Lockout cap, for socket, separable, 12-pole		
					black 770-201 100 white 770-221 100	
<b>Info</b>	<b>Dimensions</b>					



① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness

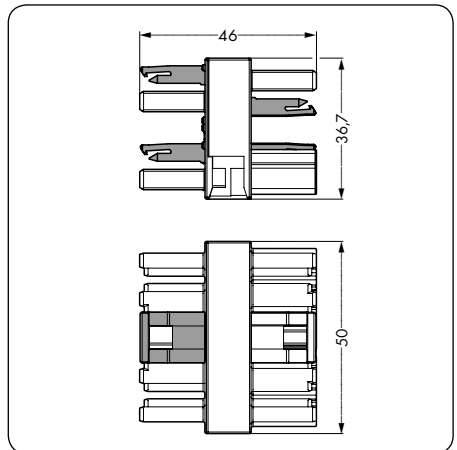
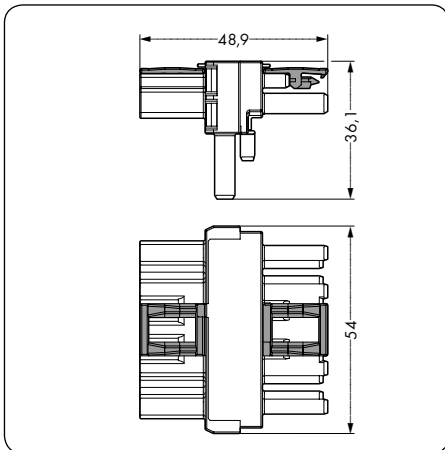
③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

④ Full rated current can only be applied to a maximum of 3 poles!

gray Coding B (1 2 3 4 5)  
light green Coding B (1 2 3 4 5)  
pink Coding B (1 2 3 4 5)

For additional pole marking, see page 227.

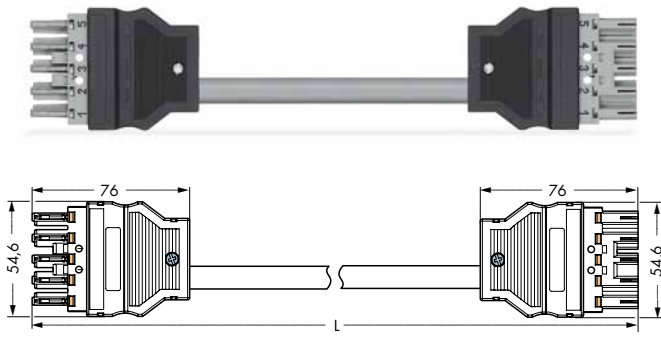
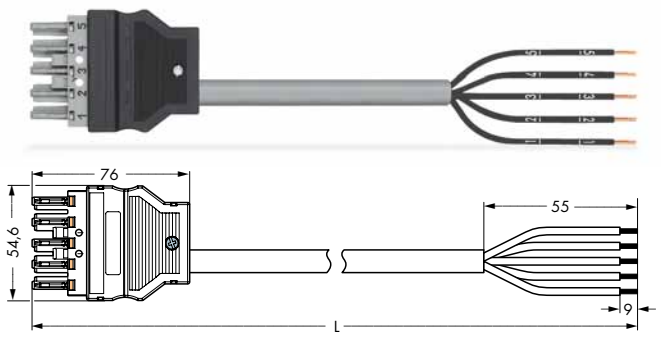
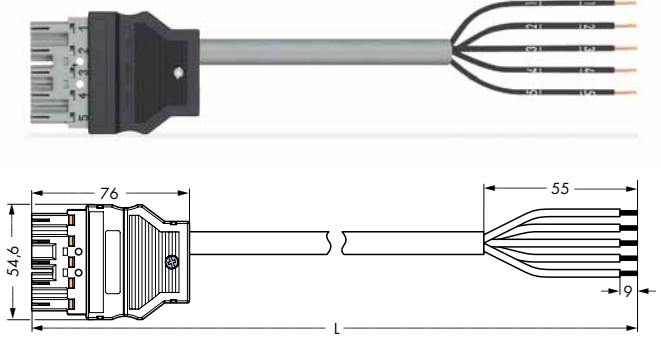












For coding information, see pages 224 to 226.  
Fire load data available upon request.






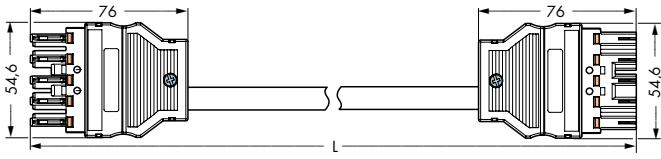

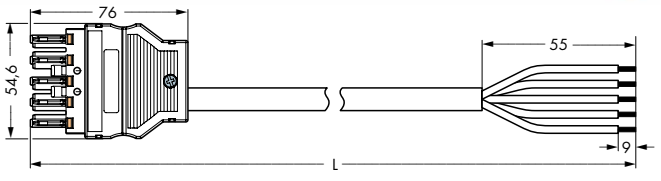

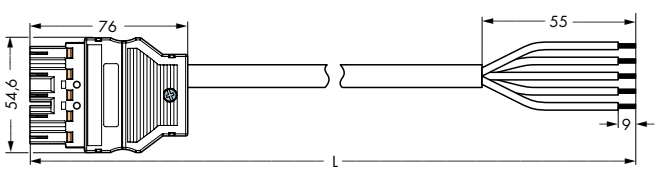
# 4 WINSTA® MIDI special Cable Assemblies 5 x 1.5 mm<sup>2</sup>

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	<p>PVC Control line: 5 x 1.5, gray</p> <p>400 V/6 kV/3 I<sub>N</sub> 16 A ②</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																																
<p>Interconnecting cable, socket – plug</p>	<p>Color Length Item No. black</p>																																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8995/006-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/006-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/006-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/006-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/006-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/006-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/006-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/006-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/006-507</td></tr> </table>	●	1 m	771-8995/006-103	●	3 m	771-8995/006-303	●	5 m	771-8995/006-503	●	1 m	771-8995/006-105	●	3 m	771-8995/006-305	●	5 m	771-8995/006-505	●	1 m	771-8995/006-107	●	3 m	771-8995/006-307	●	5 m	771-8995/006-507																					
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<p>Connecting cable, socket – free end</p>	<p>Color Length Item No. black</p>																																																
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●	5 m	771-8995/106-507																																															
<p>Connecting cable, plug – free end</p>	<p>Color Length Item No. black</p>																																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>771-8995/206-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/206-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/206-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/206-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/206-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/206-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/206-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/206-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/206-507</td></tr> </table>	●	1 m	771-8995/206-103	●	3 m	771-8995/206-303	●	5 m	771-8995/206-503	●	1 m	771-8995/206-105	●	3 m	771-8995/206-305	●	5 m	771-8995/206-505	●	1 m	771-8995/206-107	●	3 m	771-8995/206-307	●	5 m	771-8995/206-507																					
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<p>Info</p>	<p>Accessories</p>																																																
<p>① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.</p> <p>② Full rated current can only be applied to a maximum of 3 poles!</p> <p>For other cables, please contact factory.</p> <table border="1"> <tr><td>●</td><td>gray</td><td>Coding B</td><td>(1 2 3 4 5)</td></tr> <tr><td>●</td><td>light green</td><td>Coding B</td><td>(1 2 3 4 5)</td></tr> <tr><td>●</td><td>pink</td><td>Coding B</td><td>(1 2 3 4 5)</td></tr> </table> <p>For additional pole marking, see page 227.</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	●	gray	Coding B	(1 2 3 4 5)	●	light green	Coding B	(1 2 3 4 5)	●	pink	Coding B	(1 2 3 4 5)	<p>Locking lever, for "flying leads,"</p> <table border="1"> <tr><td></td><td>manually operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>770-101</td><td>100 (4x25)</td></tr> <tr><td></td><td>white</td><td>770-121</td><td>100 (4x25)</td></tr> </table> <p>Locking lever, for "flying leads,"</p> <table border="1"> <tr><td></td><td>tool operated</td><td></td><td></td></tr> <tr><td></td><td>black</td><td>770-111</td><td>100 (4x25)</td></tr> <tr><td></td><td>white</td><td>770-131</td><td>100 (4x25)</td></tr> </table> <p>Lockout cap, for socket, separable, 12-pole</p> <table border="1"> <tr><td></td><td>black</td><td>770-201</td><td>100</td></tr> <tr><td></td><td>white</td><td>770-221</td><td>100</td></tr> </table> <p>Lockout cap, for plug, separable, 5-pole</p> <table border="1"> <tr><td></td><td>yellow</td><td>770-360</td><td>100</td></tr> </table>		manually operated				black	770-101	100 (4x25)		white	770-121	100 (4x25)		tool operated				black	770-111	100 (4x25)		white	770-131	100 (4x25)		black	770-201	100		white	770-221	100		yellow	770-360	100
●	gray	Coding B	(1 2 3 4 5)																																														
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	black	770-201	100																																														
	white	770-221	100																																														
	yellow	770-360	100																																														



# Cable Assemblies 5 x 2.5 mm<sup>2</sup>

		PVC	Control line: 5 x 2.5, gray		
		400 V/6 kV/3 I <sub>N</sub> 20 A ②			
		Conductor ends, bonded: 9 mm			
		① Approvals			
<b>Interconnecting cable, socket – plug</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>	
		black			
		<b>Coding B</b>			
		PVC			
		●	1 m	771-8995/007-103	
		●	3 m	771-8995/007-303	
		●	5 m	771-8995/007-503	
		●	1 m	771-8995/007-105	
		●	3 m	771-8995/007-305	
		●	5 m	771-8995/007-505	
		●	1 m	771-8995/007-107	
		●	3 m	771-8995/007-307	
		●	5 m	771-8995/007-507	
<b>Connecting cable, socket – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>	
		black			
		<b>Coding B</b>			
		PVC			
		●	1 m	771-8995/107-103	
		●	3 m	771-8995/107-303	
		●	5 m	771-8995/107-503	
		●	1 m	771-8995/107-105	
		●	3 m	771-8995/107-305	
		●	5 m	771-8995/107-505	
		●	1 m	771-8995/107-107	
		●	3 m	771-8995/107-307	
		●	5 m	771-8995/107-507	
<b>Connecting cable, plug – free end</b>		<b>Color</b>	<b>Length</b>	<b>Item No.</b>	
		black			
		<b>Coding B</b>			
		PVC			
		●	1 m	771-8995/207-103	
		●	3 m	771-8995/207-303	
		●	5 m	771-8995/207-503	
		●	1 m	771-8995/207-105	
		●	3 m	771-8995/207-305	
		●	5 m	771-8995/207-505	
		●	1 m	771-8995/207-107	
		●	3 m	771-8995/207-307	
		●	5 m	771-8995/207-507	

## Item numbers overview for other cable lengths

Position	1 - 3	-	4	5	6	7	/	8	9	10	-	11	12	13
gray	771	-	8	9	9	5	/	0	0	6	-	1	0	3
light green	771	-	8	9	9	5	/	0	0	6	-	1	0	5
pink	771	-	8	9	9	5	/	0	0	6	-	1	0	7

The item numbers listed above correspond to the following cable version:  
Interconnecting cable, 5-pole, socket – plug, PVC control line, 5 x 1.5 mm<sup>2</sup>, 1 m

The 9th position defines whether it is a PVC or halogen-free cable. For example, an halogen-free cable with pink connectors has the following item number: 771-8995/016-107

The 10th position defines the cable cross-section. For example, a 5 x 1.5 mm<sup>2</sup> cable with light green connectors has the following item number: 771-8995/006-105

The 11th position defines the cable length. For example, a 5 m cable with gray connectors has the following item number: 771-8995/006-503



- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.
  - WINSTA® MAXI connectors are not intended for installation in open or easily accessible areas.

5



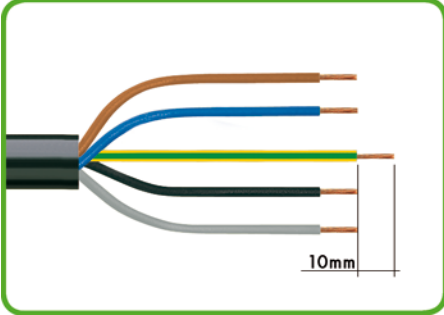
**831 Series**  
**Sockets, 5-Pole**  
**Plugs, 5-Pole**

177  
177

# 5 Handling WINSTA® MAXI, 831 Series

176

## Preparation



The following lengths are recommended:  
1. Strip length, outer insulation = 80 mm  
2. Strip length: = 13 mm  
3. Extended ground conductor = 10 mm



To terminate fine-stranded conductors, open clamping unit via 5.5mm screwdriver and insert stripped conductor until it hits backstop.

## Marking



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

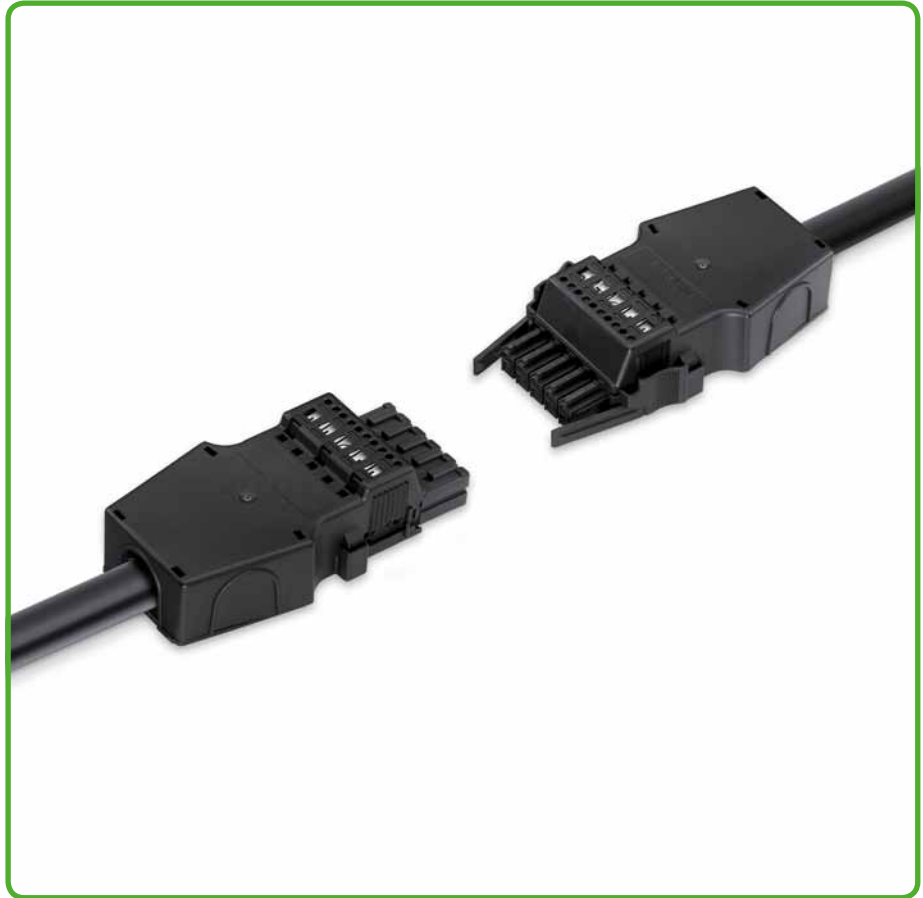
## Strain relief installation



Unscrew base of strain relief housing .



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



## Strain relief installation



Tighten strain relief with screwdriver.



Wired connector fitted in base of strain relief housing.



Latch the top of the strain relief housing.







- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.
  - WINSTA® RD connectors are not intended for installation in open or easily accessible areas.



**774 Series**  
**Cable Assemblies 3 x 1.5 mm<sup>2</sup>**  
**Cable Assemblies 3 x 2.5 mm<sup>2</sup>**

180 - 181  
 182



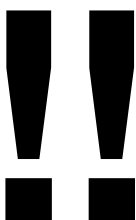
**774 Series**  
**Cable Assemblies 4 x 1.5 mm<sup>2</sup>**

183



**774 Series**  
**Plug Adapters for Attema's Hollow-Wall Boxes**

184



**Important note:**

**WINSTA® round connectors are not available in the United Kingdom, Ireland, Kuwait, Iraq, Saudi Arabia, Iran, Jordan, Bahrain, UAE, Oman, Egypt, Libya and Qatar.**



		PVC	H05VV-F 3G1.5	③ H05VV-F 3G2,5	
		halogen-free	H05Z1Z1-F 3G1.5	③ H05Z1Z1-F 3G2,5	
		250 V/4 kV/3 I <sub>N</sub> 16 A			
		Conductor ends, bonded: 9 mm			
		① Approvals			
<b>Interconnecting cable, socket with LL ② – plug</b>		Length Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A			
		PVC		halogen-free	
		1 m	774-9993/006-101 .../006-102	774-9993/016-101 .../016-102	...
		2 m	774-9993/006-201 .../006-202	774-9993/016-201 .../016-202	...
		3 m	774-9993/006-301 .../006-302	774-9993/016-301 .../016-302	...
		5 m	774-9993/006-501 .../006-502	774-9993/016-501 .../016-502	...
		7 m	774-9993/006-701 .../006-702	774-9993/016-701 .../016-702	...
<b>Connecting cable, socket with LL ② – free end</b>		Length Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A			
		PVC		halogen-free	
		1 m	774-9993/106-101 .../106-102	774-9993/116-101 .../116-102	...
		2 m	774-9993/106-201 .../106-202	774-9993/116-201 .../116-202	...
		3 m	774-9993/106-301 .../106-302	774-9993/116-301 .../116-302	...
		5 m	774-9993/106-501 .../106-502	774-9993/116-501 .../116-502	...
		7 m	774-9993/106-701 .../106-702	774-9993/116-701 .../116-702	...
<b>Connecting cable, plug – free end</b>		Length Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A			
		PVC		halogen-free	
		1 m	774-9993/206-101 .../206-102	774-9993/216-101 .../216-102	...
		2 m	774-9993/206-201 .../206-202	774-9993/216-201 .../216-202	...
		3 m	774-9993/206-301 .../206-302	774-9993/216-301 .../216-302	...
		5 m	774-9993/206-501 .../206-502	774-9993/216-501 .../216-502	...
		7 m	774-9993/206-701 .../206-702	774-9993/216-701 .../216-702	...
<b>Adapter cable, socket RD – plug MIDI ③</b>		Length Item No. black	Item No. black		
		● Coding A			
		PVC		halogen-free	
		1 m	774-9993/1507-101 774-9993/1517-101		
		2 m	774-9993/1507-201 774-9993/1517-201		
		3 m	774-9993/1507-301 774-9993/1517-301		
		5 m	774-9993/1507-501 774-9993/1517-501		
		7 m	774-9993/1507-701 774-9993/1517-701		

# Cable Assemblies 3 x 1.5 mm<sup>2</sup>

		PVC	H05VV-F 3x1.5
		halogen-free	H05Z1Z1-F 3x1.5
		250 V/4 kV/3 I <sub>N</sub> 16 A	
		Conductor ends, bonded: 9 mm	
		① Approvals	
<b>Connecting cable, socket with LL ② – free end</b>		Length Item No. black	Item No. black
	● Coding S		
	PVC		halogen-free
	1 m	774-9973/106-105	774-9973/116-105
	2 m	774-9973/106-205	774-9973/116-205
	3 m	774-9973/106-305	774-9973/116-305
	5 m	774-9973/106-505	774-9973/116-505
	7 m	774-9973/106-705	774-9973/116-705
	<b>Connecting cable, plug - free end</b>		Length Item No. black
	● Coding S		
	PVC		halogen-free
	1 m	774-9973/206-105	774-9973/216-105
	2 m	774-9973/206-205	774-9973/216-205
	3 m	774-9973/206-305	774-9973/216-305
	5 m	774-9973/206-505	774-9973/216-505
	7 m	774-9973/206-705	774-9973/216-705
	<b>Adapter cable, socket RD – plug MIDI</b>		Length Item No. black
	● Coding S		
	PVC		halogen-free
	1 m	774-9973/1506-105	774-9973/1516-105
	2 m	774-9973/1506-205	774-9973/1516-205
	3 m	774-9973/1506-305	774-9973/1516-305
	5 m	774-9973/1506-505	774-9973/1516-505
	7 m	774-9973/1506-705	774-9973/1516-705
	<b>Info</b>		
<p>① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.</p> <p>② LL = Locking lever</p> <p>For other cables, please contact factory.</p> <p>● black Coding A (L ⊕ N)          ○ white Coding A (L ⊕ N)          ● brown Coding S (L 2 1)</p> <p>For coding information, see pages 224 to 226.          Fire load data available upon request.</p>			

		PVC H05VV-F 3G2.5 halogen-free H05Z1 Z1-F 3G2.5  250 V/4 kV/3 I <sub>N</sub> 20 A  Conductor ends, bonded: 9 mm ① Approvals				
<b>Interconnecting cable, socket with LL ② – plug</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	774-9993/007-101	.../007-102	774-9993/017-101	.../017-102
		2 m	774-9993/007-201	.../007-202	774-9993/017-201	.../017-202
		3 m	774-9993/007-301	.../007-302	774-9993/017-301	.../017-302
		5 m	774-9993/007-501	.../007-502	774-9993/017-501	.../017-502
		7 m	774-9993/007-701	.../007-702	774-9993/017-701	.../017-702
<b>Connecting cable, socket with LL ② – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	774-9993/107-101	.../107-102	774-9993/117-101	.../117-102
		2 m	774-9993/107-201	.../107-202	774-9993/117-201	.../117-202
		3 m	774-9993/107-301	.../107-302	774-9993/117-301	.../117-302
		5 m	774-9993/107-501	.../107-502	774-9993/117-501	.../117-502
		7 m	774-9993/107-701	.../107-702	774-9993/117-701	.../117-702
<b>Connecting cable, plug – free end</b>		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	774-9993/207-101	.../207-102	774-9993/217-101	.../217-102
		2 m	774-9993/207-201	.../207-202	774-9993/217-201	.../217-202
		3 m	774-9993/207-301	.../207-302	774-9993/217-301	.../217-302
		5 m	774-9993/207-501	.../207-502	774-9993/217-501	.../217-502
		7 m	774-9993/207-701	.../207-702	774-9993/217-701	.../217-702
<b>Info</b>						
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.  ② LL = Locking lever  For other cables, please contact factory.  ● black Coding A (L ⊕ N) ○ white Coding A (L ⊕ N)  For coding information, see pages 224 to 226. Fire load data available upon request.						

# Cable Assemblies 4 x 1.5 mm<sup>2</sup>

		PVC	H05VV-F 4G1.5			
		halogen-free	H05Z1Z1-F 4G1.5			
		250 V/4 kV/3 I <sub>N</sub> 16 A				
		Conductor ends, bonded: 9 mm				
		① Approvals				
<b>Interconnecting cable, socket with LL ② – plug</b>		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
		5 m	774-9994/006-501	.../006-502	774-9994/016-501	.../016-502
		7 m	774-9994/006-701	.../006-702	774-9994/016-701	.../016-702
<b>Connecting cable, socket with LL ② – free end</b>		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
		5 m	774-9994/106-501	.../106-502	774-9994/116-501	.../116-502
		7 m	774-9994/106-701	.../106-702	774-9994/116-701	.../116-702
<b>Connecting cable, plug – free end</b>		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
		5 m	774-9994/206-501	.../206-502	774-9994/216-501	.../216-502
		7 m	774-9994/206-701	.../206-702	774-9994/216-701	.../216-702
<b>Info</b>						
<p>① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.</p> <p>② LL = Locking lever</p> <p>For other cables, please contact factory.</p> <p>● black Coding A (N ⊕ 2 1) ○ white Coding A (N ⊕ 2 1)</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>						











- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.
  - WINSTA® KNX connectors are not intended for installation in open or easily accessible areas.



**893 Series**  
Pluggable Connectors, 2-Pole

189



**893 Series**  
Snap-In Device Connectors, 2-Pole

190



**893 Series**  
T-Distribution Connectors, 2-Pole

191



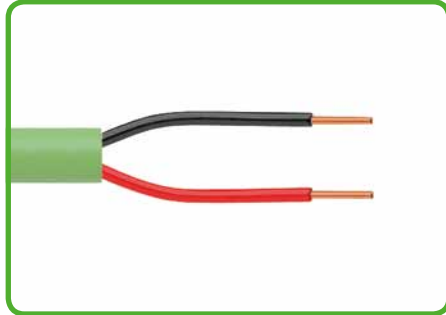
**894 Series**  
Cable Assemblies, 2 x 0.8 mm Ø

192 - 193



# 7 Handling WINSTA® KNX, 893 Series

## Preparation

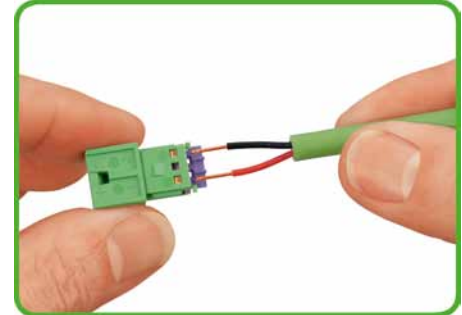


- 1. Strip length, outer insulation: = 23 mm
- 2. Strip length = 9 mm

## Conductor termination

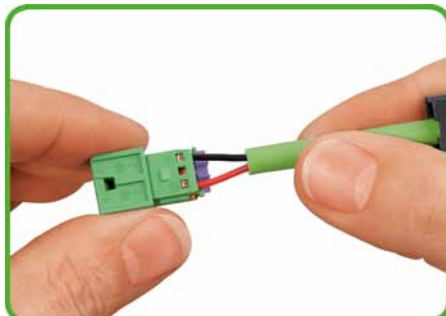


Prior to termination, pull the strain relief housing over the cable.

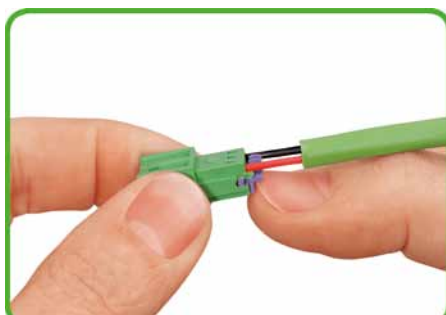


Insert stripped conductor directly into the conductor entry.

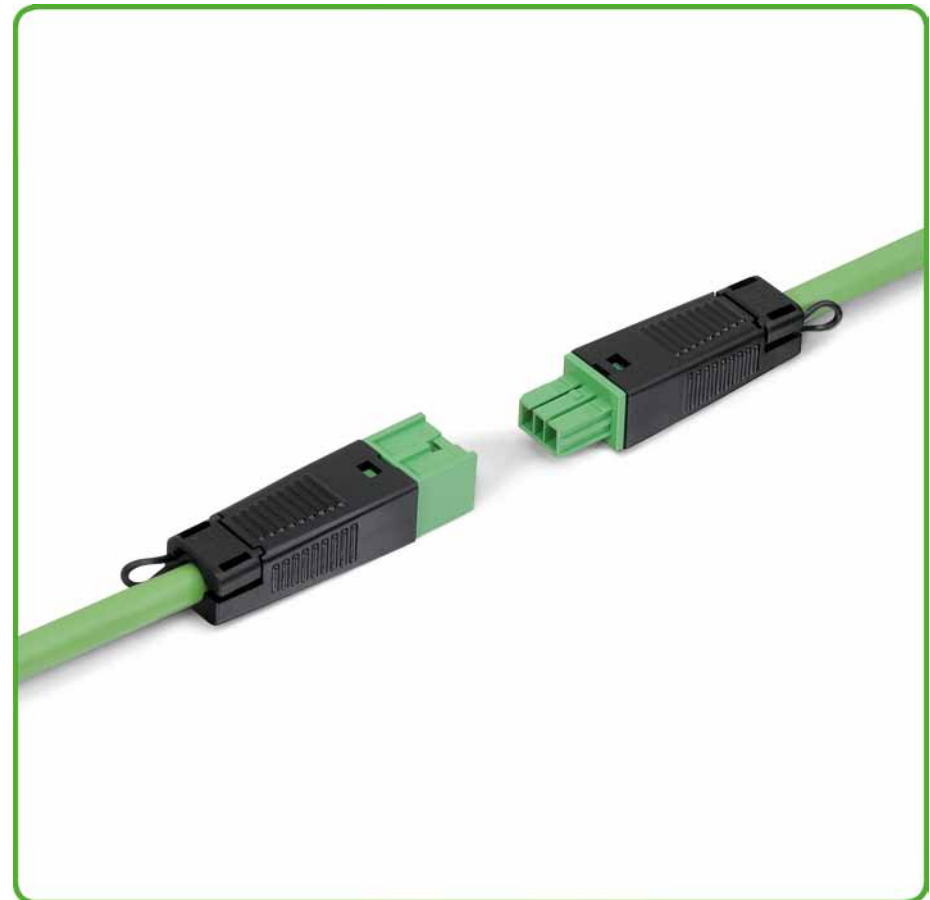
## Conductor termination



Push conductors until they hit backstop.



To disconnect, open clamping unit via purple actuator and pull out conductor.



## Strain relief assembly





Snap wired connector into strain relief housing.

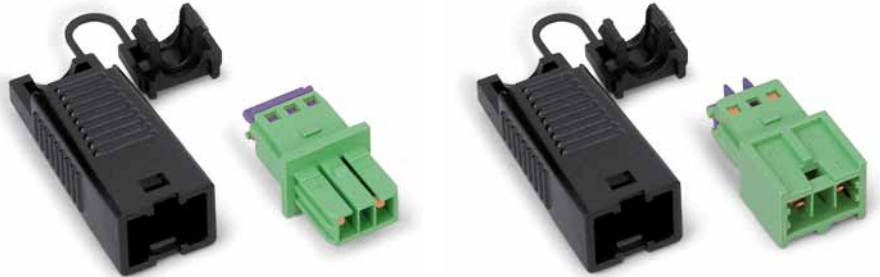


Press strain relief firmly on the cable.



Pre-assembled KNX connector.

<p><b>0.8 mm Ø</b> 50 V/0.8 kV/3 I<sub>N</sub> 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>	<p><b>0.8 mm Ø</b> 50 V/0.8 kV/3 I<sub>N</sub> 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>
---	---



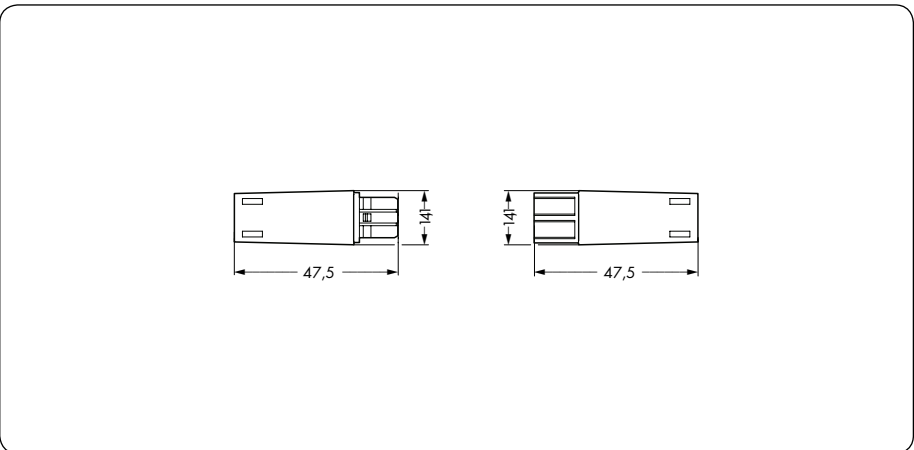
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 2-pole, with spring clamp connection	Socket with strain relief housing, 5 - 7 mm cable diameter ②			Plug with strain relief housing, 5 - 7 mm cable diameter ②		
	● green	893-1002	50	● green	893-1012	50
	Special coding:			Special coding:		
	○ light gray	893-1022	50	○ light gray	893-1032	50
Info	Dimensions					



① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

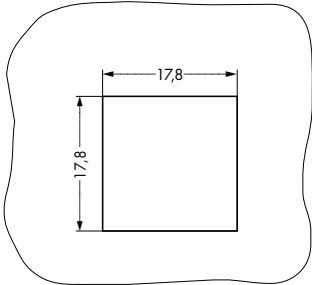
② 2Y(ST)2x(2x0.8)

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

For coding information, see pages 224 to 226.  
Fire load data available upon request.



<p>Cutout dimensions</p> <p>Plate thickness: 0.5 – 2 mm</p> <p>Cutout tolerance: + 0.1 mm</p>	<p>0.8 mm Ø</p> <p>50 V/0.8 kV/3</p> <p>I<sub>N</sub> 3 A</p> <p> 9 mm / 0.35 in</p> <p>📄 Approvals</p>	<p>0.8 mm Ø</p> <p>50 V/0.8 kV/3</p> <p>I<sub>N</sub> 3 A</p> <p> 9 mm / 0.35 in</p> <p>📄 Approvals</p>
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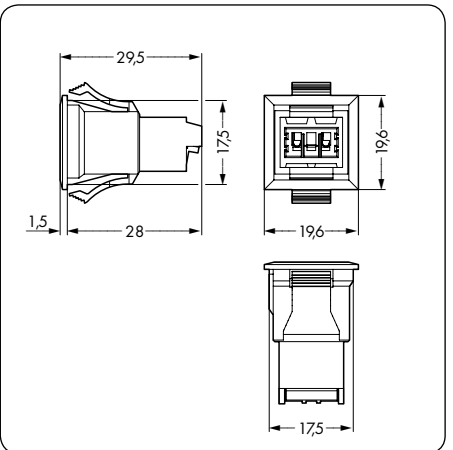
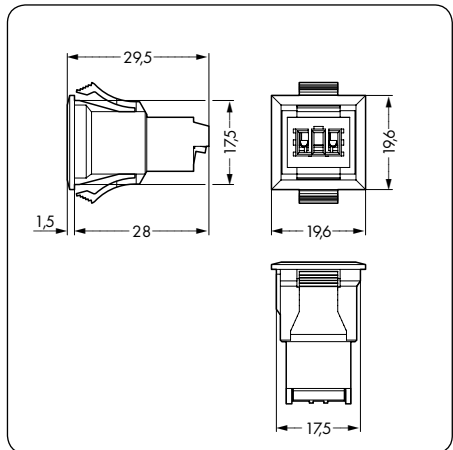


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Snap-in connectors, 2-pole, with spring clamp connection, T-distribution connectors	Socket, for KNX applications			Plug, for KNX applications		
	● green	893-2002	50	● green	893-2012	50
	Special coding:			Special coding:		
	○ light gray	893-2022	50	○ light gray	893-2032	50
Info	Dimensions					

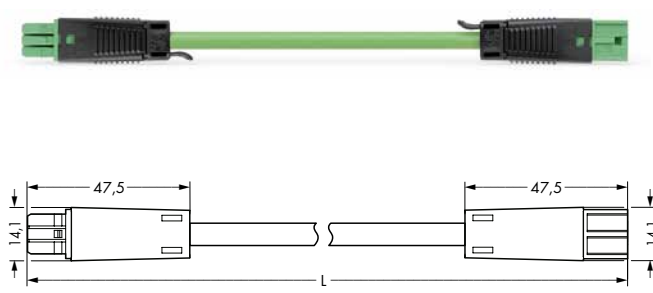
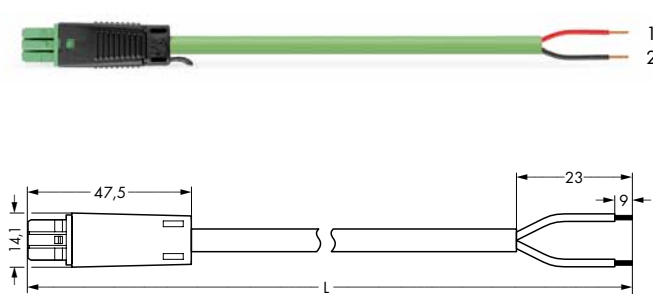
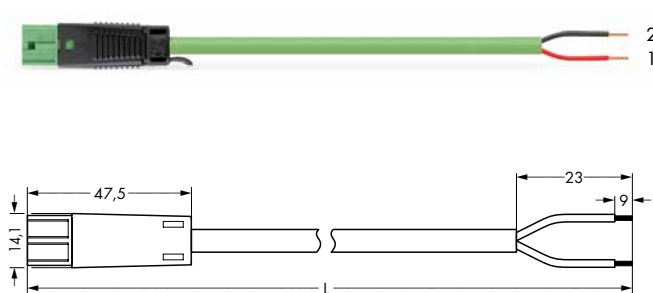
📄 For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

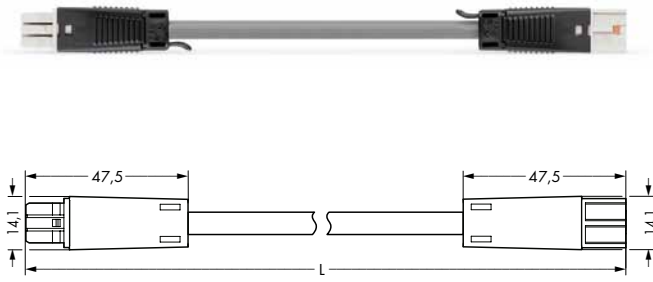
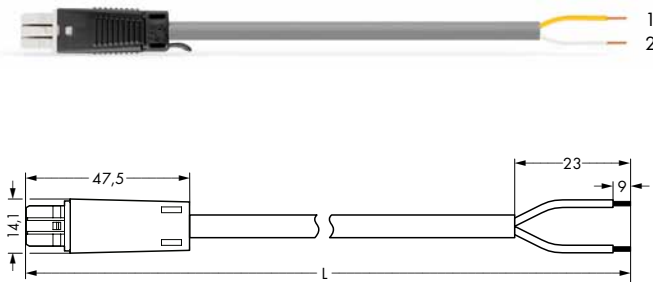
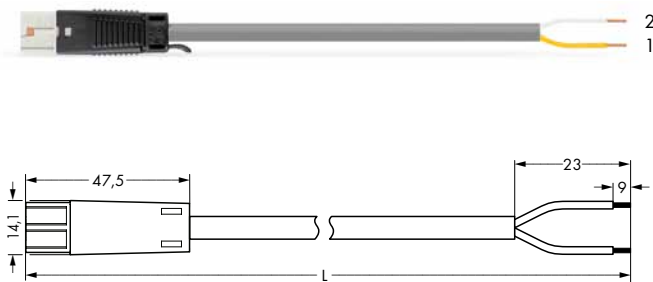
● green Coding E (1+ 2-)  
○ light gray Coding F (1+ 2-)

For coding information, see pages 224 to 226.  
Fire load data available upon request.

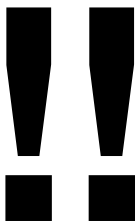
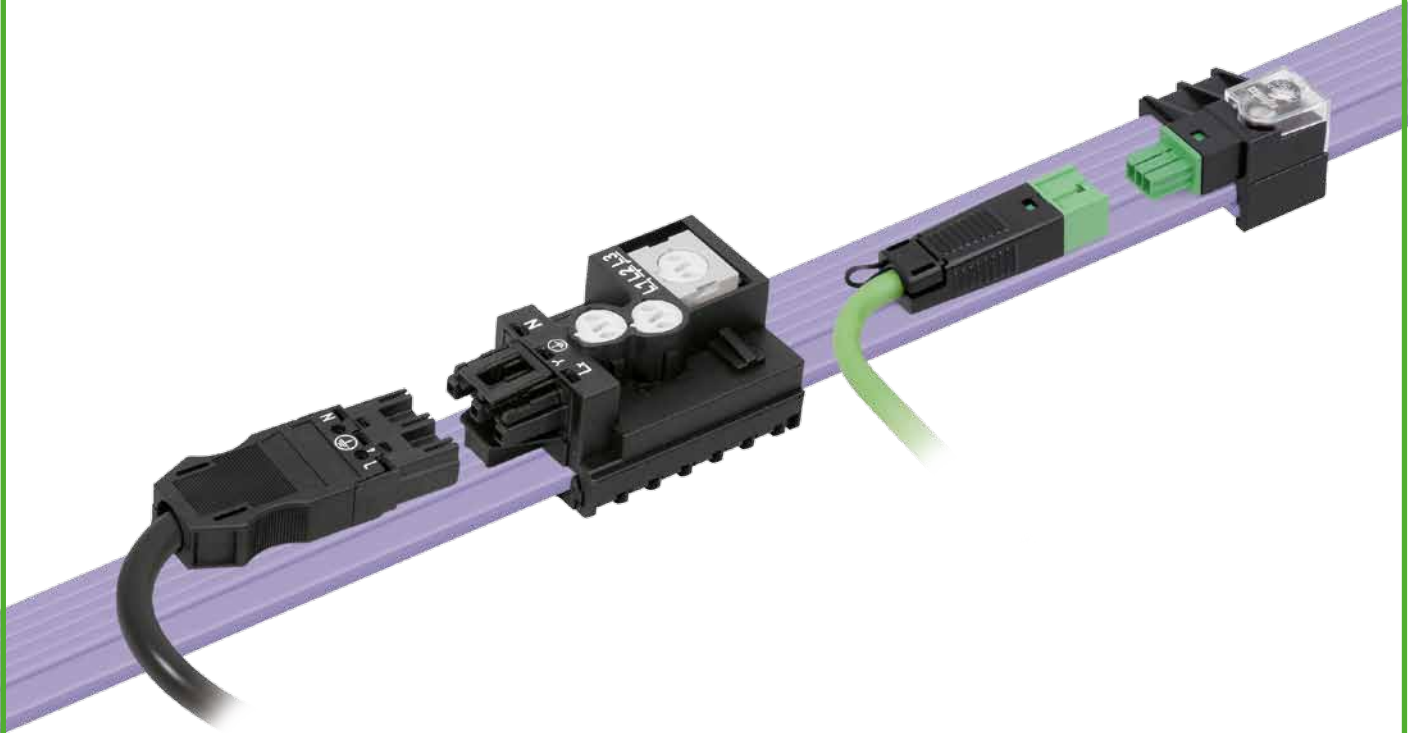




	<p>PVC UNITRONIC BUS EIB 2x2x0.8</p> <p>50 V/0.8 kV/3 I<sub>N</sub> 3 A</p> <p>① Approvals</p>
<p>Interconnecting cable, socket – plug</p>	<p>Length Item No.</p>
	<p>● Coding E, for KNX applications PVC</p> <p>1 m 894-8992/033-106</p> <p>3 m 894-8992/033-306</p> <p>5 m 894-8992/033-506</p>
<p>Connecting cable, socket – free end</p>	<p>Length Item No.</p>
	<p>● Coding E, for KNX applications PVC</p> <p>1 m 894-8992/133-106</p> <p>3 m 894-8992/133-306</p> <p>5 m 894-8992/133-506</p>
<p>Connecting cable, plug – free end</p>	<p>Length Item No.</p>
	<p>● Coding E, for KNX applications PVC</p> <p>1 m 894-8992/233-106</p> <p>3 m 894-8992/233-306</p> <p>5 m 894-8992/233-506</p>
<p>Info</p>	
<p>① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.</p> <p>For halogen-free cables, please contact factory.</p> <p>② Cable core assignment, coding F:</p> <p>yellow 1+</p> <p>white 2-</p> <p>● green Coding E (1+ 2-)</p> <p>○ light gray Coding F (1+ 2-)</p> <p>For coding information, see pages 224 to 226. Fire load data available upon request.</p>	

	<p>PVC J-Y(ST)Y...LG 2x2x0.8</p> <p>50 V/0.8 kV/3 I<sub>N</sub> 3 A</p> <p>① Approvals</p>
<p>Interconnecting cable, socket – plug</p>	<p>Length Item No.</p>
	<p>○ Coding F, ② for standard fieldbus applications PVC</p> <p>1 m 894-8992/033-107</p> <p>3 m 894-8992/033-307</p> <p>5 m 894-8992/033-507</p>
<p>Connecting cable, socket – free end</p>	<p>Length Item No.</p>
	<p>○ Coding F, ② for standard fieldbus applications PVC</p> <p>1 m 894-8992/133-107</p> <p>3 m 894-8992/133-307</p> <p>5 m 894-8992/133-507</p>
<p>Connecting cable, plug – free end</p>	<p>Length Item No.</p>
	<p>○ Coding F, ② for standard fieldbus applications PVC</p> <p>1 m 894-8992/233-107</p> <p>3 m 894-8992/233-307</p> <p>5 m 894-8992/233-507</p>





**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.

# 8

- Note:**
- Installation connectors are designed for connection and disconnection while not under load.
  - There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
  - Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
  - Installation connector systems are not a substitute for residential connector/socket systems.
  - WINSTA® IDC connectors are not intended for installation in open or easily accessible areas.



**772 Series**  
**IDC Modules for Flat Cables**  
 5 x 2.5 mm<sup>2</sup> / 5 x 4 mm<sup>2</sup> / 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup>  
 – Supply Module  
 – Tap-Off Modules, WINSTA® MIDI Connectors

198  
 199



**893 Series**  
**IDC Modules for Flat Cables**  
 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup> / 2 x 1.5 mm<sup>2</sup>  
 – Supply Module (KNX and Special Coding)  
 – Tap-Off Modules (KNX and Special Coding)

202, 206  
 203, 207



**896 Series**  
**IDC Modules for 3 x 2.5 mm<sup>2</sup> Flat Cable**  
 – Supply and Tap-Off Modules

210, 211



**895 Series**  
**POWERBLOCK 10 for 5 x 10 mm<sup>2</sup> Flat Cable**  
 – Supply and Tap-Off Modules

212, 213



**895 Series**  
**POWERBLOCK 16 for 5 x 16 mm<sup>2</sup> Flat Cable**  
 – Supply and Tap-Off Modules

214, 215



**897 Series**  
 Flat Cables 2 x 1.5 mm<sup>2</sup>  
 Flat Cables 5 x 2.5 mm<sup>2</sup>  
 Flat Cables 5 x 4 mm<sup>2</sup>  
 Flat Cables 5 x 2.5 mm<sup>2</sup> + 5 x 1.5 mm<sup>2</sup>

208  
 200  
 201  
 201, 204

# 8 Handling WINSTA® IDC, 772 Series

196

## Module positioning and contacting



Insert flat cable into base (observe coding!).

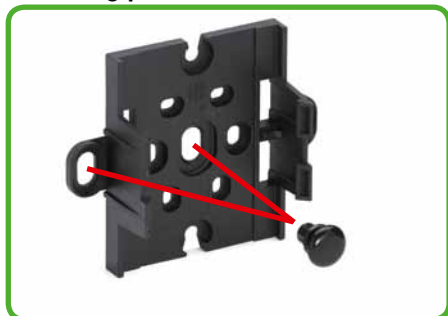


Mount IDC module flush with the base. Should the IDC module jam during mounting, turn the upper part by 180° and remount it.



Screw down contact elements until element stops.

## Mounting plate installation



The mounting plate can be centrally mounted, or attached via outboard attachment points using 770-601 fixing pins.

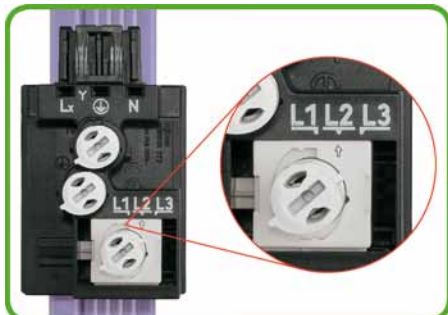
## Snapping on distribution connector



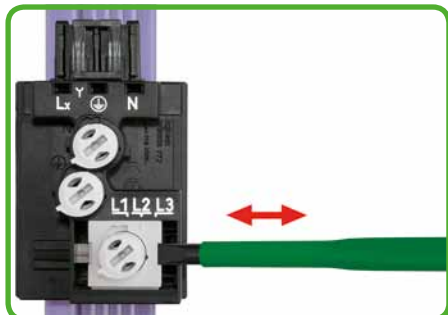
The distribution connectors snap together when attached to the mounting plate.



## 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.



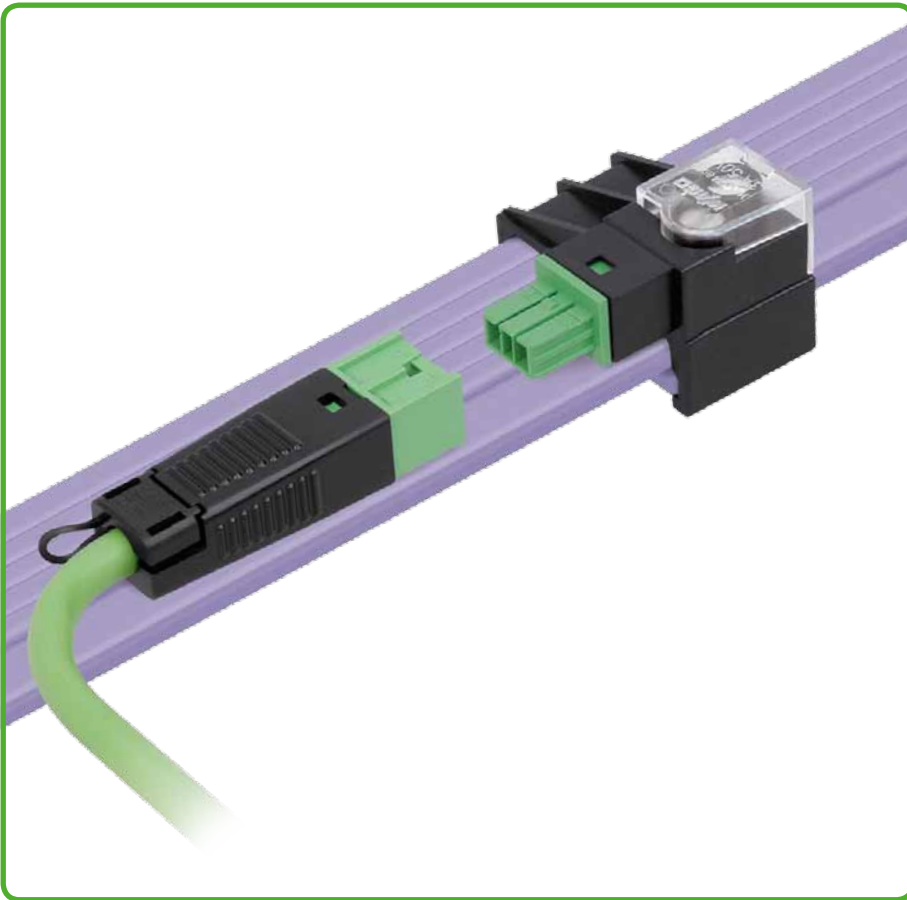
Connecting an installation cable to the supply module. Stripped, solid conductors are simply pushed into unit. Open clamp via screwdriver to insert stripped, fine-stranded conductors.



Secure supply cable via strain relief housing.



Tighten strain relief screw using a screwdriver.



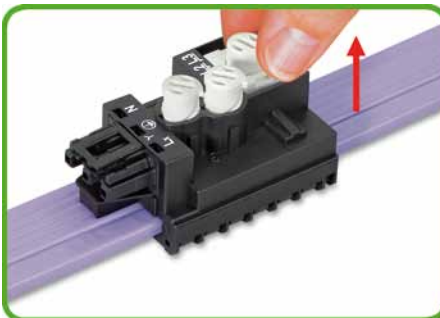
Contact is made with the flat cable by tightening the screws. Observe 1 Nm of tightening torque!



Snapping on transparent protective cover.



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.



Lift contact element to unlock phase selector and select the new phase.

NOTICE: Do not reuse in the same location of the flat cable.

**Insulating tape**



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

## 772 Series Supply Modules with Strain Relief Housing, 5-Pole




2 x 0.5 – 4 mm<sup>2</sup> ❶  
400 V/6 kV/3  
I<sub>N</sub> 25 A

2 x AWG 20 – 12

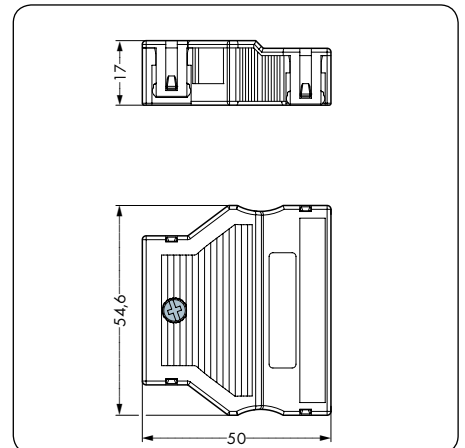
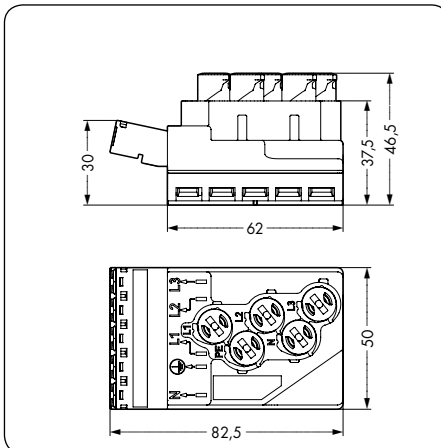
9 mm / 0.35 in

❷ Approvals



Description	Color	Item No.	Pack. Unit
Supply module, 5-pole	<b>Supply module with strain relief housing ❸,</b>		
Tap-off module with phase selection, 3-pole	9 - 13 mm cable diameter		
Tap-off module, 5-pole			
	black	772-261	10
	gray ❺	772-264/060-000	10
	red	772-267	10
	<b>For flat cables,</b> see pages 200 and 201		
<b>Item-Specific Accessories</b>			
	<b>Mounting plate, for supply and tap-off modules</b>		
		black 772-260	10
	<b>Fixing pin, for mounting plates</b>		
		❹ black 770-601	250
	<b>Operating tool, with insulated shaft,</b> (6.5 x 1.2) mm blade		
		green 210-636	1
<b>Info</b>	<b>Dimensions</b>		

- ❶ Conductor sizes: 0.5 – 4 mm<sup>2</sup> "s + f-st"  
0.5 – 2.5 mm<sup>2</sup> "stranded"
  - ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
  - ❸ Strain relief housings for larger cable diameters, see pages 118 and 119.
  - ❹ 6.0 mm Ø, 1 – 2.5 mm plate thickness
  - ❺ Full rated current can only be applied to a maximum of 3 poles!
- Processing temperature: +5 °C to +40 °C
- black Coding A (N ⊕ L1 L2 L3)
  - gray Coding B (N ⊕ L1 L2 L3)
  - red Coding P (N ⊕ L1 L2 L3)
- For coding information, see pages 224 to 226.  
Fire load data available upon request.













## 772 Series Tap-Off Modules, 3- and 5-Pole

400 V/6 kV/3 250 V/4 kV/3 $I_N$ 25 A  ② Approvals	400 V/6 kV/3 $I_N$ 25 A  ② Approvals
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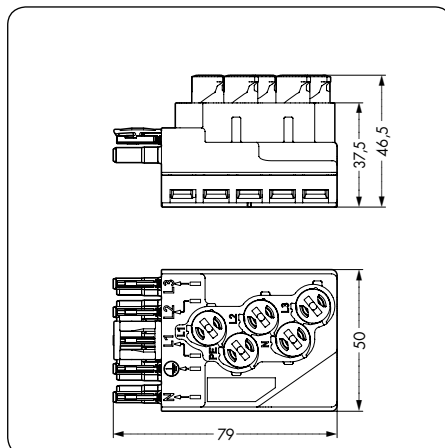
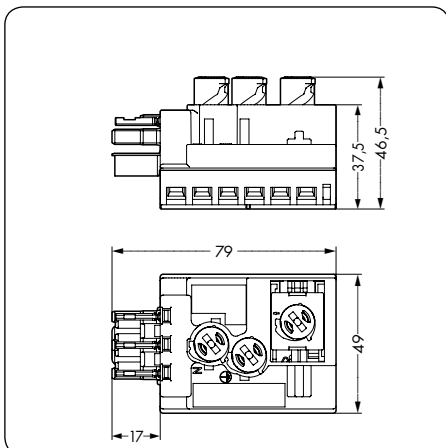


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Tap-off module with phase selection, 3-pole,</b> WINSTA® MIDI plug-in and distribution connectors, supply position L2			<b>Tap-off module, 5-pole,</b> for WINSTA® MIDI plug-in and distribution connectors		
● black	772-263	10	● black	772-262	10
● gray	772-266/060-000	10	● gray ⑤	772-265/060-000	10
● red	772-269	10	● red	772-268	10
<b>For flat cables,</b> see pages 200 and 201			<b>For flat cables,</b> see pages 200 and 201		

### Item-Specific Accessories

<b>Mounting plate, for supply and tap-off modules</b>  black 772-260 10	<b>Mounting plate, for supply and tap-off modules</b>  black 772-260 10
<b>Fixing pin, for mounting plates</b>  ④ black 770-601 250	<b>Fixing pin, for mounting plates</b>  ④ black 770-601 250
<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100	<b>Lockout cap, for socket, separable, 12-pole</b>  black 770-201 100 white 770-221 100
<b>Operating tool, with insulated shaft,</b> (6.5 x 1.2) mm blade  green 210-636 1	<b>Operating tool, with insulated shaft,</b> (6.5 x 1.2) mm blade  green 210-636 1

### Dimensions











## 897 Series Flat Cables 5 x 2.5 mm<sup>2</sup>

	<p>Flat cable 5 x 2.5 mm<sup>2</sup> 3L + N + PE halogen-free 0.6/1kV</p> <p>① Approvals</p>	<p>Flat cable 5 x 2.5 mm<sup>2</sup> 3L + N + PE PVC 0.6/1kV</p> <p>① Approvals</p>
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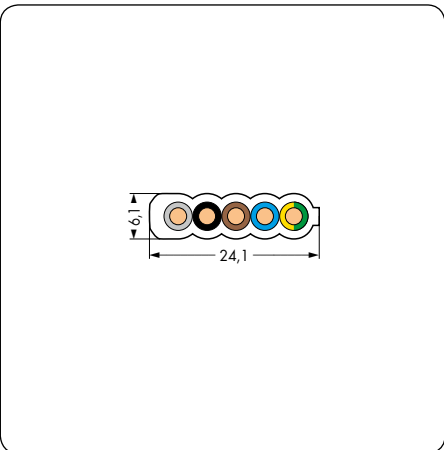
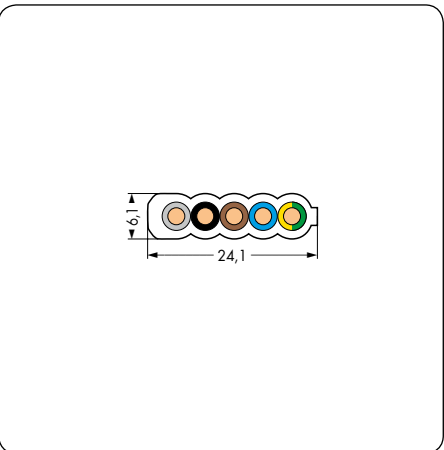


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cables, halogen-free or PVC, 5- and 7-pole	Flat cable 5 x 2.5 mm <sup>2</sup> , halogen-free			Flat cable 5 x 2.5 mm <sup>2</sup> , PVC		
	gray	897-252		light green	897-251	

Item-Specific Accessories						
	<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p>  <p>transparent 897-250 10</p>			<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p>  <p>transparent 897-250 10</p>		
	<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p>  <p>black 897-900 10</p>			<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p>  <p>black 897-900 10</p>		
	<p>Fixing clamp, plastic, for screw mounting</p>  <p>gray 897-878 100</p>			<p>Fixing clamp, plastic, for screw mounting</p>  <p>gray 897-878 100</p>		
	<p>Stripping pliers</p>  <p>897-971 1</p>			<p>Stripping pliers</p>  <p>897-971 1</p>		
	<p>Cutter</p> <p>897-972 1</p>			<p>Cutter</p> <p>897-972 1</p>		
Info	Dimensions					

① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Fire load data available upon request.



# 897 Series













## Flat Cables 5 x 4 mm<sup>2</sup> and 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup>

<p>Flat cable 5 x 4 mm<sup>2</sup> 3L + N + PE halogen-free 0.6/1kV</p> <p>🔌 Approvals</p>	<p>Flat cable 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup> 3L + N + PE + 2 Bus halogen-free 0.6/1kV</p> <p>🔌 Approvals</p>	<p>Flat cable 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup> 3L + N + PE + 2 Bus PVC 0.6/1kV</p> <p>🔌 Approvals</p>
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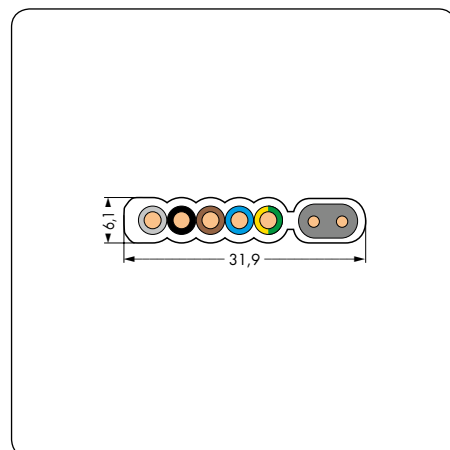
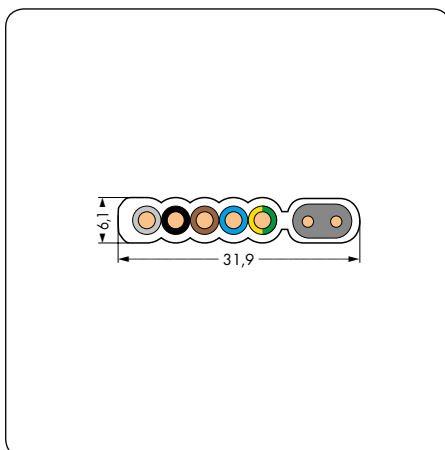
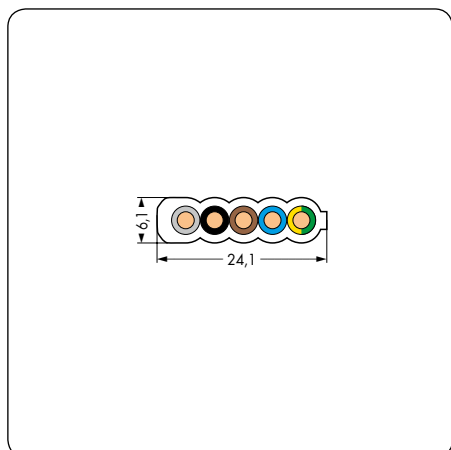


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cable 5 x 4 mm <sup>2</sup> , halogen-free			Flat cable 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> , halogen-free			Flat cable 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> , PVC		
black	897-453		violet	897-262		violet	897-261	

### Item-Specific Accessories

<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p> <p> transparent 897-250 10</p>	<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p> <p> transparent 897-260 10</p>	<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p> <p> transparent 897-260 10</p>
<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p> <p> black 897-900 10</p>	<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p> <p> black 897-900 10</p>	<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p> <p> black 897-900 10</p>
<p>Fixing clamp, plastic, for screw mounting</p> <p> gray 897-878 100</p>	<p>Fixing clamp, plastic, for screw mounting</p> <p> gray 897-878 100</p>	<p>Fixing clamp, plastic, for screw mounting</p> <p> gray 897-878 100</p>
<p>Stripping pliers</p> <p> 897-971 1</p> <p>Cutter</p> <p>897-972 1</p>	<p>Stripping pliers</p> <p> 897-971 1</p> <p>Cutter</p> <p>897-972 1</p>	<p>Stripping pliers</p> <p> 897-971 1</p> <p>Cutter</p> <p>897-972 1</p>

### Dimensions



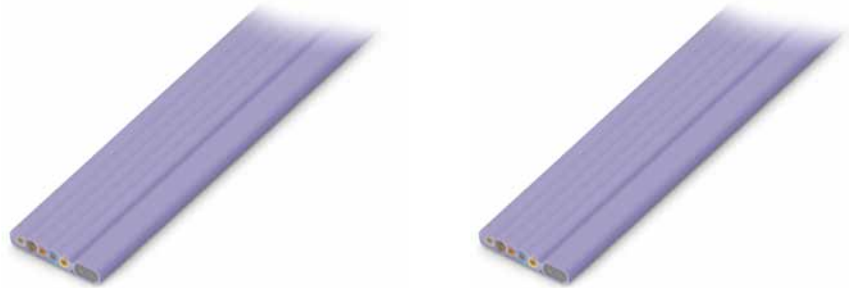






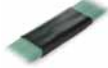
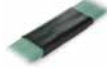








## 897 Series Flat Cables 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup>

	<p>Flat cable 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup> 3L + N + PE + 2 Bus halogen-free 0.6/1 kV</p> <p>📌 Approvals</p>	<p>Flat cable 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup> 3L + N + PE + 2 Bus PVC 0.6/1 kV</p> <p>📌 Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cables, halogen-free or PVC, 7-pole	Flat cable 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> , halogen-free			Flat cable 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup> , PVC		
	violet	897-262		violet	897-261	

Item-Specific Accessories						
	<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p>  <p>transparent 897-260 10</p>			<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p>  <p>transparent 897-260 10</p>		
	<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p>  <p>black 897-900 10</p>			<p>Insulating tape for flat cables, for sealing contact holes in flat cables.</p>  <p>black 897-900 10</p>		
	<p>Fixing clamp, plastic, for screw mounting</p>  <p>gray 897-878 100</p>			<p>Fixing clamp, plastic, for screw mounting</p>  <p>gray 897-878 100</p>		
	<p>Stripping pliers</p>  <p>897-971 1</p>			<p>Stripping pliers</p>  <p>897-971 1</p>		
	<p>Cutter</p>  <p>897-972 1</p>			<p>Cutter</p>  <p>897-972 1</p>		
Info	Dimensions					

📌 For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.



Fire load data available upon request.















## 897 Series Flat Cables 2 x 1.5 mm<sup>2</sup>

	Flat cable 2 x 1.5 mm <sup>2</sup> 2 Bus halogen-free 50 V  ① Approvals		Flat cable 2 x 1.5 mm <sup>2</sup> 2 Bus PVC 50 V  ① Approvals
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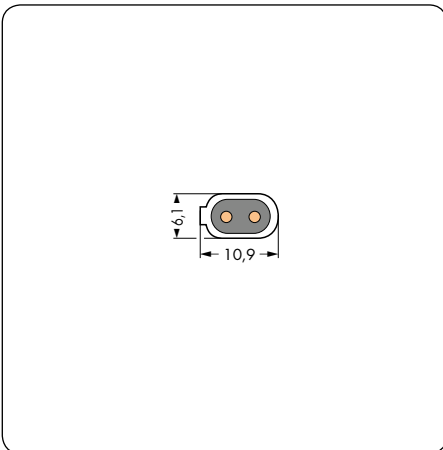
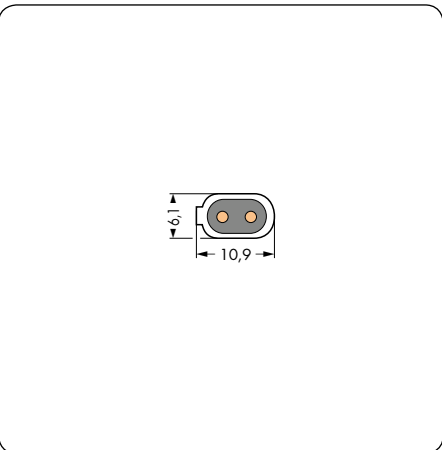


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cables, halogen-free or PVC, 2-pole	Flat cable 2 x 1.5 mm <sup>2</sup> , halogen-free			Flat cable 2 x 1.5 mm <sup>2</sup> , PVC		
	gray	897-122		gray	897-121	

Item-Specific Accessories							
		Flat cable end cover, plastic. Every cable end must be fitted with an end cover.  transparent 897-120 10				Flat cable end cover, plastic. Every cable end must be fitted with an end cover.  transparent 897-120 10	
		Insulating tape for flat cables, for sealing contact holes in flat cables.  black 897-900 10				Insulating tape for flat cables, for sealing contact holes in flat cables.  black 897-900 10	
		Fixing clamp, plastic, for screw mounting  gray 897-878 100				Fixing clamp, plastic, for screw mounting  gray 897-878 100	
		Stripping pliers  897-971 1 Cutter 897-972 1				Stripping pliers  897-971 1 Cutter 897-972 1	
Info	Dimensions						

① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Fire load data available upon request.



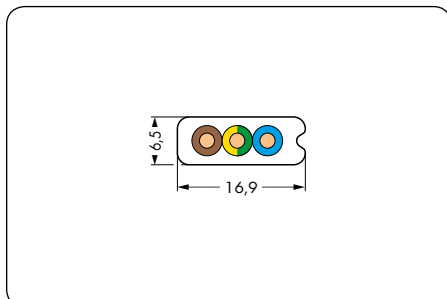








	<b>Flat cable 3 x 2.5 mm<sup>2</sup></b> <b>250 VAC</b>  <b>1 Approvals</b>
--	--



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

Description	Color	Item No.	Pack. Unit
Flat cable 3 x 2.5 mm <sup>2</sup>	Flat cable 3 x 2.5 mm <sup>2</sup> , PVC, L + N + PE light gray	<b>897-231</b>	
	Flat cable 3 x 2.5 mm <sup>2</sup> , halogen-free, L + N + PE light gray	<b>897-232</b>	



Cut outgoing feeder cable, completely strip and insert conductors. Tighten screws firmly. (Tightening torque: 0.7 Nm)

Item-Specific Accessories			
	Flat cable end cover, plastic. Every cable end must be fitted with an end cover. transparent	<b>897-230</b>	10
	Insulating tape for flat cables, for sealing contact holes in flat cables. black	<b>897-900</b>	10
	Fixing clamp, for screw mounting dark gray	<b>897-839</b>	200 (8x25)
	Stripping pliers. Remove 17mm of the conductor insulation.	<b>897-931</b>	1
	Cutter	<b>897-972</b>	1

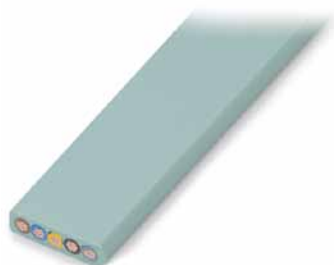
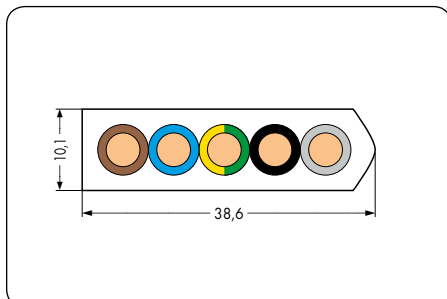


Insert upper part into base until it hits the stop (which will click when engaged). Push down and lock lever. All 3 cores are contacted simultaneously.

Tap-Off Module with WINSTA® MIDI Socket	Color	Item No.	Pack. Unit
  	Tap-off module fitted with WINSTA® MIDI socket (coding A), with 35 cm H35VV-F cable, 3 x 2.5 mm <sup>2</sup>		
	black	<b>896-233</b>	10
	white	<b>896-234</b>	10
For other lengths, please contact factory.			



	<b>Flat cable 5 x 10 mm<sup>2</sup></b> <b>0.6/1 kV</b>  <b>1 Approvals</b>
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





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

Description	Color	Item No.	Pack. Unit
Flat cable 5 x 10 mm <sup>2</sup>	Flat cable 5 x 10 mm <sup>2</sup> , PVC, 3L + N + PE		
	light green	<b>897-1051</b>	
	Flat cable 5 x 10 mm <sup>2</sup> , halogen-free, 3L + N + PE		
	light green	<b>897-1052</b>	



Cut off outer insulation via cutter.

Item-Specific Accessories			
	<b>Flat cable end cover</b> , plastic. Every cable end must be fitted with an end cover.		
		transparent	<b>897-1050</b> 10
	<b>Insulating tape for flat cables</b> , for sealing contact holes in flat cables.		
		black	<b>897-900</b> 10
	<b>Fixing clamp</b> , for screw mounting		
		dark gray	<b>897-859</b> 100
	<b>Stripping knife</b>		
			<b>897-951</b> 1
	<b>Cutter</b>		
			<b>897-970</b> 1



Push end cover fully onto the conductor ends.

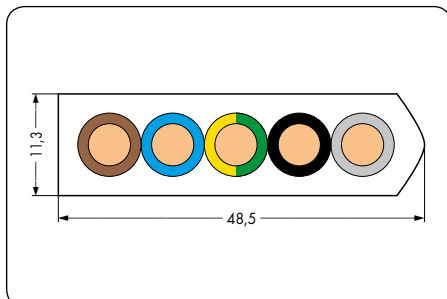
Pre-Assembled Version
-----------------------



The 895-1652 tap-off module is also available with a pre-assembled WINSTA® MIDI connector. For item number and delivery time, please contact factory.







	<b>Flat cable 5 x 16 mm<sup>2</sup></b> <b>0.6/1 kV</b>  <b>1 Approvals</b>
--	--



Description	Color	Item No.	Pack. Unit
Flat cable 5 x 16 mm <sup>2</sup>	Flat cable 5 x 16 mm <sup>2</sup> , PVC, 3L + N + PE		
	light gray	897-1651	
	Flat cable 5 x 10 mm <sup>2</sup> , halogen-free, 3L + N + PE		
	light gray	897-1652	



Make contact with the flat cable by tightening the screw until it hits the stop (observe the tightening torque!)

Item-Specific Accessories			
	Flat cable end cover, plastic. Every cable end must be fitted with an end cover.		
		transparent 897-1650	4
	Insulating tape for flat cables, for sealing contact holes in flat cables.		
		black 897-901	10
	Stripping knife		
		897-952	1
	Cutter		
		897-970	1



Red contact clips confirm that the contacts are made correctly when they are flush with the terminals.

Pre-Assembled Version
-----------------------



The 895-1652 tap-off module is also available with a pre-assembled WINSTA® MAXI connector. For item number and delivery time, please contact factory.





# 9



**Tools**

**Operating Tools**

**Cable Cutter, Wire Strippers**

**Stripping Pliers, Cable Cutters, Stripping Knives**

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**Marking Accessories**

**Self-Adhesive Marking Strips**

221






# Cable Cutter and Wire Strippers

Cable cutter acc. to VDE for copper and aluminum cables up to 35 mm <sup>2</sup> (AWG 2)	"Quickstrip 10" wire stripper 0.02 - 10 mm <sup>2</sup> "f-st" (6 mm <sup>2</sup> "s") Cutter for conductors up to 10 mm <sup>2</sup> "f-st" (1.5 mm <sup>2</sup> "s")	"Quickstrip 16" wire stripper 4 - 16 mm <sup>2</sup> Cutter for conductors up to 10 mm <sup>2</sup> "f-st" (1.5 mm <sup>2</sup> "s")
--	--	--



Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Cable cutter, for 0.25 - 35 mm <sup>2</sup> wires (AWG 22 - 2)			"Quickstrip 10" wire stripper, for 0.02 - 10 mm <sup>2</sup> fine-stranded conductors for 0.02 - 6 mm <sup>2</sup> solid conductors			"Quickstrip 16" wire stripper, for all conductor types 4 - 16 mm <sup>2</sup>		
green	206-118	1	black	206-124	1	black	206-125	1

Accessories								
			"Standard" blade cassette, 0.02 - 10 mm <sup>2</sup>			"Standard" blade cassette, 4 - 16 mm <sup>2</sup>		
			 206-126 1			 206-128 1		
			"V" blade cassette 0.02 - 4 mm <sup>2</sup> for PTFE					
			 206-127 1					

## Application Notes



Cutting a cable.



Stripping a conductor.



Cutting a conductor.

- Automatically adjusts to conductor size
- No damage to conductor strands
- Gripping pressure of jaws automatically adjusts to conductor insulation diameter
- Clamping jaws and stripping blades automatically open once the stripping process is completed, ensuring no damage to the conductor strands
- Exact strip length may be set by sliding red setting stop
- Stripping blades can be replaced
- Self-sharpening, fully protected cutter
- The entire body is made of glass fiber-reinforced polyamide

## Stripping Pliers, Cable Cutters, Stripping Knives

<b>Stripping pliers</b>	<b>Cable cutters</b>	<b>Stripping knife</b>
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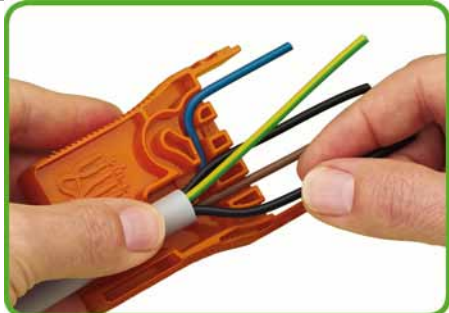
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
<b>Stripping pliers, with insulated handles</b>			<b>Cable cutter, with partially insulated handles</b>			<b>Stripping knife</b>		
red	<b>897-931</b>	1	red	<b>897-970</b>	1	light gray	<b>897-951</b>	1
for flat cables 3 x 2.5 mm <sup>2</sup>			for flat cables 5 x 10 mm <sup>2</sup> 5 x 16 mm <sup>2</sup>			for flat cables 5 x 10 mm <sup>2</sup>		
red	<b>897-971</b>	1	red	<b>897-972</b>	1	light gray	<b>897-952</b>	1
for flat cables 2 x 1.5 mm <sup>2</sup> 5 x 2.5 mm <sup>2</sup> 5 x 4 mm <sup>2</sup> 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup>			for flat cables 2 x 1.5 mm <sup>2</sup> 3 x 2.5 mm <sup>2</sup> 5 x 2.5 mm <sup>2</sup> 5 x 4 mm <sup>2</sup> 5 x 2.5 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup>			for flat cables 5 x 16 mm <sup>2</sup>		

# Wiring Aid, Marking Strips – WINSTA® MIDI

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

Item No. 770-100

Marking strips



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



Cut conductor ends.



Strip conductor ends 9 mm (see marking).



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



Slide connector to the stop over conductor ends.



Connector with inserted conductors.



Socket with connected cable in a strain relief housing.



Wired connector with strain relief housing.

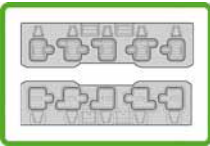


Item No.	Pack. Unit
<b>Self-adhesive marking strips on DIN A4 cards, 182 mm long, white</b>	
<b>210-333</b>	1
For 770 Series: Strip height: 6 mm (40 x) Marking area: Strain relief, 3-pole, 28 x 6.5 mm Strain relief, 4-pole, 38 x 6.5 mm Strain relief, 5-pole, 48 x 6.5 mm Strain relief, 6-pole, 62 x 6.5 mm	
<b>210-334</b>	1
for 771 Series Strip height: 5 mm (48 x) Marking area: Strain relief, 3-pole, 22 x 5.2 mm Strain relief, 4-pole, 32 x 5.2 mm Strain relief, 5-pole, 42 x 5.2 mm	
Marking software: smartMARKING	
CD-ROM	<b>888-414/101-3601</b> 1





# 10



**Coding Overview  
Pole Marking**

224 - 226  
227



**Your Questions – Our Answers**

228 - 229



**Technical Data**

230 - 239

Item Number	Designation	Approved On	Package	Current	Notes
204 000	000	24-10-2017/16/17	000	0A	1,5
204 001	001	27-04-2017	000	0A	0,5
204 002	002	04-08-2017	000	0A	0,5
204 003	003	04-08-2017	000	0A	0,5
204 004	004	04-08-2017	000	0A	0,5
204 005	005	04-08-2017	000	0A	0,5
204 006	006	04-08-2017	000	0A	0,5
204 007	007	04-08-2017	000	0A	0,5
204 008	008	04-08-2017	000	0A	0,5
204 009	009	04-08-2017	000	0A	0,5
204 010	010	04-08-2017	000	0A	0,5

**Approvals – User Guide**

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**Electrical Engineering Laboratory**

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**Seminars**

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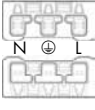
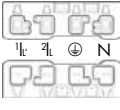
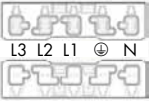

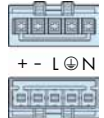
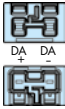
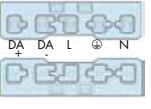

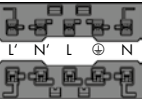






**Index  
Item Number Index**

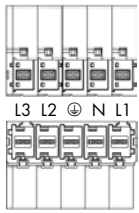

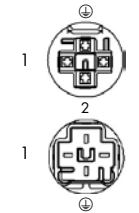
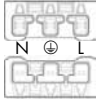
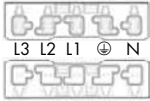





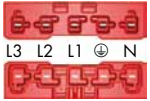
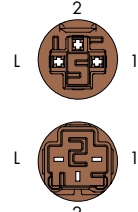
248 - 253  
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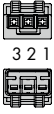



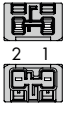

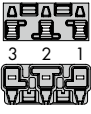

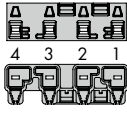

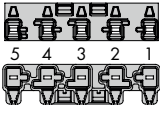







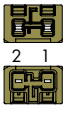

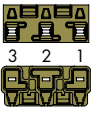

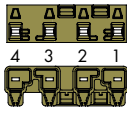

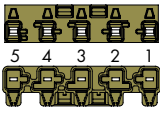







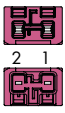

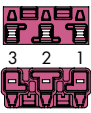

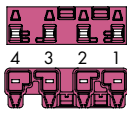

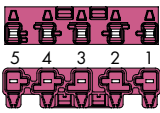

**WAGO Worldwide Companies and Representatives**

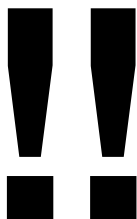
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Description	WINSTA® MINI				WINSTA® MIDI			
	2-pole	3-pole	4-pole	5-pole	2-pole	3-pole	4-pole	5-pole
<b>Series</b>	890/891	890/891	890/891	890/891	770/771	770/771	770/771	770/771
<b>Coding A</b> black white  e.g., general applications	 N L	 N ⊕ L	 1/2 3/4 ⊕ N	 3 2 1 ⊕ N	 N L	 N ⊕ L	 1/2 3/4 ⊕ N	 L3 L2 L1 ⊕ N
<b>Coding E</b> green KNX applications								
<b>Coding F</b> light gray specialty coding								
<b>Coding I</b> , blue  e.g., dimming	 - +			 + - L ⊕ N	 DA DA			 DA DA L ⊕ N
<b>Coding L</b> dark gray  e.g., emergency power supply					 N' L'			 L' N' L ⊕ N
<b>Coding P</b> red  e.g., computer applications (UPS)						 N ⊕ L		 L3 L2 L1 ⊕ N
<b>Coding Q</b> green  "Clean Earth" applications							 L PE2 PE1 N	 L PE3 PE2 PE1 N
<b>Coding R</b> orange  e.g., LON bus						 S LON LON		
<b>Coding S</b> brown  e.g., switching applications						 L 2 1		

Description	WINSTA® MAXI	WINSTA® RD		WINSTA® KNX		WINSTA® IDC	
	5-pole	3-pole	4-pole	2-pole	2-pole	3-pole	5-pole
<b>Series</b>	<b>831</b>	<b>774</b>	<b>774</b>	<b>893/894</b>	<b>893/894</b>	<b>772</b>	<b>772</b>
<b>Coding A</b> black white  e.g., general applications							
<b>Coding E</b> green KNX applications  <b>Coding F</b> light gray specialty coding				 1+ 2- 	 1+ 2- 		
<b>Coding I</b> , blue  e.g., dimming							
<b>Coding L</b> dark gray  e.g., emergency power supply							
<b>Coding P</b> red  e.g., computer applications (UPS)							
<b>Coding Q</b> green  "Clean Earth" applications							
<b>Coding R</b> orange  e.g., LON bus							
<b>Coding S</b> brown  e.g., switching applications							

Description	WINSTA® MINI special				WINSTA® MIDI special / WINSTA® IDC			
	2-pole	3-pole	4-pole		2-pole	3-pole	4-pole	5-pole
<b>Series</b>	890/891	890/891	890/891		770/771	770/771/772	770/771	770/771/772
<b>Coding B</b> gray  Control and general applications (mains applications 110 – 400 V)	 2 1 	 3 2 1 	 4 3 2 1 		 2 1 	 3 2 1 	 4 3 2 1 	 5 4 3 2 1 
<b>Coding B</b> light green  Control and general applications (low voltages 0 – 48 V)	 2 1 	 3 2 1 	 4 3 2 1 		 2 1 	 3 2 1 	 4 3 2 1 	 5 4 3 2 1 
<b>Coding B</b> pink  Control and general applications (bus applications)	 2 1 	 3 2 1 	 4 3 2 1 		 2 1 	 3 2 1 	 4 3 2 1 	 5 4 3 2 1 



### Important note:

Components of both WINSTA® MINI special and WINSTA® MIDI special series with B Coding are designed for specialty applications (e.g., measurement, control and regulation technology) and certified according to DIN EN 61984. In addition to the gray models for 110–400V voltages, there is now also a variant in light green for low voltages up to 48V, as well as a pink one for bus applications.

Each of the three versions is available in 2-, 3- or 4- and 5-pole configurations. Pole marking can be printed at the factory to suit customer requirements. According to IEC 61535, B-Coded products are protected against mismatching with all other coding types found in the WINSTA® system. Within B Coding, all special variants can mate with each other. The variable coding system provides clear circuit identification. Special variants can be clearly differentiated according to color and pole marking. They can be coded on-site or delivered with factory-installed custom coding.

Suffix Number	Marking				Application
	2-pole	3-pole	4-pole	5-pole	
without	1 2	1 2 3	1 2 3 4	1 2 3 4 5	General applications
/060-000	L N	L ⊕ N	N ⊕ <sup>2</sup> L <sup>1</sup> L'	N ⊕ L1 L2 L3	Standard network applications 230 V/400 V
/062-000		2 PE 1	3 PE 2 1	N PE 3 2 1	Fan Step switching
/064-000			2L ⊕ 1L L	N ⊕ L 2L 1L	230 V + switched
without	1 2	1 2 3	1 2 3 4	1 2 3 4 5	General applications
/071-000		U+ X/Y U-	U- S U+ X/Y		AI / AO 0 - 10 V
/072-000			U- U+ DI AI		Presence detector incl. light sensor
/073-000		1 ⊕ 2	1 ⊕ 2 3	1 ⊕ 2 3 4	Control signal incl. ground
without	1 2	1 2 3	1 2 3 4	1 2 3 4 5	General applications
/080-000	I+ I-			N ⊕ L I- I+	SMI bus
/081-000		1 2 5	1 2 5 3		MP-Bus
/082-000	+ -	+ S -		N ⊕ L - +	General bus applications

Distribution connectors and cable assemblies with above-mentioned pole marking are available upon request.

Item number example:

WINSTA® MIDI special, plug, 4-pole, light green, with U- U+ DI AI pole marking **770-274/072-000**

**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 entire electrical installation to be wired on both sides of the floor distribution boards.

**Question 3:**

What needs to be considered for the changeover from NYM cables for permanent installation to pluggable installation using fine-stranded 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. 2.5mm<sup>2</sup> to 4mm<sup>2</sup> (AWG 14 to 12).

**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. The provisions set out in VDE 0100 must always be observed.

**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 3m (see VDE 0100, Nov. 1991, Part 430).

**Question 7:**

Are there distribution boxes with WINSTA® components available?

Yes. WAGO offers a variety of distribution boxes with different functions (e.g., DALI-Bus, KNX applications, sun blind control) ready for connection with WINSTA® connectors.

**Question 8:**

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

It must be ensured that all three phases can be simultaneously switched off (e.g., via 3-pole safety cutout or 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® provide when designing different circuits, such as GPS (general power supply), SPS (secure power supply) or UPS (uninterruptible power supply)?

Coding **A** (black/white), **E** (green), **F** (light gray), **I** (blue), **L** (dark gray), **P** (red), **Q** (green), **R** (orange) and **S** (brown) are foolproof to avoid mistaken plugging.

**Question 10:**

Are there individual marking options for WINSTA® components?

Of course, flexible marking is part of a flexible connector system. 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 6mm-wide relays into 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. This provides maximum safety.

**Question 13:**

Can two electrical circuits (even those with different voltages) be routed in one connector / in one cable?

According to VDE 0100 Part 520, this is acceptable when the connector, or all of the wire insulation present in the cable line is rated for the maximum voltage applied.

**Question 14:**

What needs to be considered for installations in rooms requiring increased fire protection?

In accordance with VDE 0100 Part 482.1.11, H07RN-F cables must be used on account of their greater mechanical strength. ①

**Question 15:**

Is WINSTA® intended for applications in open or easily accessible areas?

Specialty products are available for such applications (see pages 98 to 101).

<b>Rated voltage:</b>	250 V/4 kV/3 $\triangleq$ IEC 60664 2- and 3-pole 400 V/6 kV/3 $\triangleq$ IEC 60664 4- and 5-pole Clearances and creepage distances $\geq$ 5.5mm With strain relief $\geq$ 6.5 mm to accessible surfaces (protection class II)
<b>Rated current:</b>	Max. 16A, depending on conductor size
<b>Conductor size:</b>	0.25 - 1 mm <sup>2</sup> (AWG 22 - 18), solid, stranded and fine-stranded 1.5 mm <sup>2</sup> (AWG 16), solid and fine-stranded
<b>Contact resistance:</b>	approx. 1 m $\Omega$ contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket
<b>Approvals:</b>	UL (Depending on end-product standard, it <b>may</b> be necessary to use UL-approved cables with AWG cross-section. These cables are available upon request.), CCA technique, IEC 61535, LR, GL, DNV
<b>Degree of protection:</b>	With strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas)
<b>Cable diameter:</b>	2-pole: 3.8 - 8.2 mm $\varnothing$ 3-pole: 4.5 - 10.0 mm $\varnothing$ 4-pole: 6.5 - 10.5 mm $\varnothing$ 5-pole: 6.5 - 10.5 mm $\varnothing$
<b>Mating cycles:</b>	200, without resistive load 100, with resistive load $I_N = 16A$ , tested (1.5 mm <sup>2</sup> /AWG 16)
<b>Mating and unmating forces:</b> (socket and plug)	Mating force: approx. 20-70N (depending on number of poles) Unmating force when unlocked: approx. 20-70N (depending on number of poles) Retention force when locked: > 80N
<b>Protection against mismating:</b>	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
<b>Locking levers:</b>	All connectors for fixed installations (snap-in versions for lighting fixtures, devices or distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).
<b>Materials:</b>	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel (Cr-Ni)
<b>Processing temperature:</b>	-5°C to +40°C
<b>Continuous service temperature:</b>	-35°C to $\leq$ 85°C PVC cable for temperatures $\leq$ 70°C (including halogen-free) Insulating parts for temperatures $\leq$ 105°C
<b>General:</b>	First make/last break ground contacts
<b>Fire load:</b>	Please contact factory.



<b>Rated voltage:</b>	250 V/4 kV/3 $\triangleq$ IEC 60664 2- and 3-pole 400 V/6 kV/3 $\triangleq$ IEC 60664 4-pole Clearances and creepage distances $\geq$ 5.5mm With strain relief $\geq$ 6.5 mm to accessible surfaces (protection class II)
<b>Rated current:</b>	Max. 16A, depending on conductor size
<b>Conductor size:</b>	0.25 - 1 mm <sup>2</sup> (AWG 22 - 18), solid, stranded and fine-stranded 1.5 mm <sup>2</sup> (AWG 16), solid and fine-stranded
<b>Contact resistance:</b>	approx. 1 m $\Omega$ contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket
<b>Approvals:</b>	UL (Depending on end-product standard, it <b>may</b> be necessary to use UL-approved cables with AWG cross-section. These cables are available upon request.), CCA technique, IEC 60320, LR, GL, DNV
<b>Degree of protection:</b>	With strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas)
<b>Cable diameter:</b>	2-pole: 3.8 - 8.2 mm $\varnothing$ 3-pole: 4.5 - 10.0 mm $\varnothing$ 4-pole: 6.5 - 10.5 mm $\varnothing$ 5-pole: 6.5 - 10.5 mm $\varnothing$
<b>Mating cycles:</b>	200, without resistive load 100, with resistive load $I_N = 16A$ , tested (1.5 mm <sup>2</sup> /AWG 16)
<b>Mating and unmating forces:</b> (socket and plug)	Mating force: approx. 20-70N (depending on number of poles) Unmating force when unlocked: approx. 20-70N (depending on number of poles) Retention force when locked: > 80N
<b>Locking levers:</b>	All connectors for fixed installations (snap-in versions for lighting fixtures, devices or distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for "flying leads" (plug/socket).
<b>Materials:</b>	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel (Cr-Ni)
<b>Processing temperature:</b>	-5°C to +40°C
<b>Continuous service temperature:</b>	-35°C to $\leq$ 85°C PVC cable for temperatures $\leq$ 70°C (including halogen-free) Insulating parts for temperatures $\leq$ 105°C
<b>General:</b>	First make/last break ground contacts
<b>Fire load:</b>	Please contact factory.

**Rated voltage:** 250 V/4 kV/3  $\triangleq$  IEC 60664 2- and 3-pole  
400 V/6 kV/3  $\triangleq$  IEC 60664 4- and 5-pole  
Clearance and creepage distances  $\geq$  5.5mm to exposed surfaces

**Rated current:** max. 25 A, depending on conductor size

**Conductor size:** 0.5–2.5 mm<sup>2</sup> (AWG 20–14), solid, stranded and fine-stranded  
4mm<sup>2</sup> (AWG 12), solid and fine-stranded

**Contact resistance:** approx. 1 m $\Omega$  contact resistance  
approx. 0.25 m $\Omega$  contact transition plug/socket

**Approvals:** UL (Depending on end-product standard, it **may** be necessary to use UL-approved cables with AWG cross-section. These cables are available upon request.), CCA technique, IEC 61535, LR, GL, DNV  
Linect®: IEC 61984  
Specialty products for use in easily accessible areas are available (see pages 98 to 101). These products meet IP 2XD protection class.

**Degree of protection:** With strain relief housing: IP2xC  
(These compact connectors are not designed for use in open, easily accessible areas)

**Cable diameter:**  
2-pole: 5 – 9 mm  $\varnothing$ , 7 – 10.5 mm  $\varnothing$   
3-pole: 4.5 – 8 mm  $\varnothing$ , 8 – 11.5 mm  $\varnothing$ , 9 – 13 mm  $\varnothing$   
4-pole: 9 – 13 mm  $\varnothing$   
5-pole: 5 – 9 mm  $\varnothing$ , 9 – 13 mm  $\varnothing$ , 11.5 – 16.5 mm  $\varnothing$   
6-pole: 8.5 – 13.5 mm  $\varnothing$   
7-pole: 8 – 15 mm  $\varnothing$

**Mating cycles:** 200, without resistive load  
100, with resistive load  $I_N = 25A$ , tested (4 mm<sup>2</sup>/AWG 12)

**Mating and unmating forces:**  
(socket and plug)  
Mating force: approx. 20–70N (depending on number of poles)  
Unmating force when unlocked: approx. 20–70N (depending on number of poles)  
Retention force when locked: > 80N

**Protection against mismatching:** All WINSTA® components are 100% protected against mismatching 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 connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely 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 (Cr-Ni)

**Processing temperature:** -5°C to +40°C

**Continuous service temperature:** -35°C to  $\leq$  85°C  
PVC cable for temperatures  $\leq$  70°C (including halogen-free)  
Insulating parts for temperatures  $\leq$  105°C

**General:** First make/last break ground contacts

**Fire load:** Please contact factory.

<b>Rated voltage:</b>	250 V/4 kV/3 $\triangle$ IEC 60664 2- and 3-pole 400 V/6 kV/3 $\triangle$ IEC 60664 4- and 5-pole Clearance and creepage distances $\geq$ 5.5mm to exposed surfaces
<b>Rated current:</b>	max. 25 A, depending on conductor size
<b>Conductor size:</b>	0.5–2.5 mm <sup>2</sup> (AWG 20–14), solid, stranded and fine-stranded 4mm <sup>2</sup> (AWG 12), solid and fine-stranded
<b>Contact resistance:</b>	approx. 1 m $\Omega$ contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket
<b>Approvals:</b>	UL (Depending on end-product standard, it <b>may</b> be necessary to use UL-approved cables with AWG cross-section. These cables are available upon request.), CCA technique, IEC 60320, LR, GL, DNV Specialty products for use in easily accessible areas are available (see pages 98 to 101). These products meet IP 2XD protection class.
<b>Degree of protection:</b>	With strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas)
<b>Cable diameter:</b>	2-pole: 5 – 9 mm $\varnothing$ , 7 – 10.5 mm $\varnothing$ 3-pole: 4.5 – 8 mm $\varnothing$ , 8 – 11.5 mm $\varnothing$ , 9 – 13 mm $\varnothing$ 4-pole: 9–13 mm $\varnothing$ 5-pole: 5 – 9 mm $\varnothing$ , 9 – 13 mm $\varnothing$ , 11.5 – 16.5 mm $\varnothing$ 6-pole: 8.5 – 13.5 mm $\varnothing$ 7-pole: 8 – 15 mm $\varnothing$
<b>Mating cycles:</b>	200, without resistive load 100, with resistive load $I_N = 25A$ , tested (4 mm <sup>2</sup> /AWG 12)
<b>Mating and unmating forces:</b> (socket and plug)	Mating force: approx. 20–70N (depending on number of poles) Unmating force when unlocked: approx. 20–70N (depending on number of poles) Retention force when locked: > 80N
<b>Locking levers:</b>	All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).
<b>Materials:</b>	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel (Cr-Ni)
<b>Processing temperature:</b>	–5°C to +40°C
<b>Continuous service temperature:</b>	–35°C to $\leq$ 85°C PVC cable for temperatures $\leq$ 70°C (including halogen-free) Insulating parts for temperatures $\leq$ 105°C
<b>General:</b>	First make/last break ground contacts
<b>Fire load:</b>	Please contact factory.

**Rated voltage:**400 V/6 kV/3  $\triangleq$  IEC 60664Clearance and creepage distances  $\geq 5.5\text{mm}$  to exposed surfaces (Protection Category II)**Rated current:**

Max. 35A, depending on conductor size

**Conductor size:**0.5–4mm<sup>2</sup> (AWG 20–12), solid, stranded and fine-stranded6mm<sup>2</sup> (AWG 10), solid and fine-stranded**Contact resistance:**approx. 1 m $\Omega$  contact resistanceapprox. 0.25 m $\Omega$  contact transition plug/socket**Approvals:**

UL, CCA Technique

**Degree of protection:**

With strain relief housing: IP2xC

(These compact connectors are not designed for use in open, easily accessible areas)

**Cable diameter:**5-pole: 13 – 18 mm  $\varnothing$ **Mating cycles:**

100, without resistive load

50, with resistive load  $I_N = 35\text{A}$ , tested (6mm<sup>2</sup>/AWG 10)**Mating and unmating forces:**  
(socket and plug)

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

Unmating force when unlocked: approx. 30 – 70 N (depending on number of poles)

Retention force when locked: &gt; 80N

**Protection against mismatching:**

All WINSTA® components are 100% protected against mismatching 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:**

Sockets are factory-equipped with locking levers to ensure plugs and sockets are securely 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 (Cr-Ni)

**Processing temperature:**

–5°C to +40°C

**Continuous service temperature:**–35°C to  $\leq 85^\circ\text{C}$ 

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 ground contacts

**Fire load:**

Please contact factory.

<b>Rated voltage:</b>	250 V/4 kV/3 $\triangleq$ IEC 60664 Clearance and creepage distances $\geq 5.5\text{mm}$ to exposed surfaces (Protection Category II)
<b>Rated current:</b>	max. 20 A, depending on conductor size
<b>Conductor size:</b>	1.5–2.5 mm <sup>2</sup> (AWG 16–14), fine-stranded
<b>Contact resistance:</b>	approx. 1 m $\Omega$ contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket
<b>Approvals:</b>	CCA certificate
<b>Degree of protection:</b>	With strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas)
<b>Cable diameter:</b>	3 x 1.5mm <sup>2</sup> (AWG 16), 8.2 mm $\varnothing$ (fixed) 3 x 2.5mm <sup>2</sup> (AWG 14), 10 mm $\varnothing$ 4 x 1.5mm <sup>2</sup> (AWG 16), 9.2 mm $\varnothing$
<b>Mating cycles:</b>	200, without resistive load 100, with resistive load $I_N = 20\text{A}$ , tested (2.5mm <sup>2</sup> /AWG 14)
<b>Mating and unmating forces:</b> (socket and plug)	Mating force: approx. 30 – 70 N (depending on number of poles) Unmating force when unlocked: approx. 30 – 70 N (depending on number of poles) Retention force when locked: > 80N
<b>Protection against mismatching:</b>	All WINSTA® components are 100% protected against mismatching in terms of: a.) plugging different number of poles b.) plugging when turned by 180° c.) plugging when laterally staggered
<b>Locking levers:</b>	Sockets are factory-equipped with locking levers.
<b>Materials:</b>	Connector material Insulating parts: Polyamide 6.6 V0, halogen-free (except cable) Contacts: Copper or copper alloy, surface-treated Clamping spring: Stainless steel (Cr-Ni)
<b>Processing temperature:</b>	-5°C to +40°C
<b>Continuous service temperature:</b>	-35°C to $\leq 85^\circ\text{C}$ PVC cable for temperatures $\leq 70^\circ\text{C}$ (including halogen-free) Insulating parts for temperatures $\leq 105^\circ\text{C}$
<b>General:</b>	First make/last break ground contacts
<b>Fire load:</b>	Please contact factory.

**Rated voltage:** 50 V/0.8 kV/3  
Clearances and creepage distances  $\geq 5.5\text{mm}$

**Rated current:** 3 A

**Conductor size:**  $0.5\text{mm}^2$  (AWG 20), solid

**Contact resistance:** approx. 3 m $\Omega$  contact resistance

**Approvals:** EIB manual

**Degree of protection:** IP20, with strain relief housing  
(These compact connectors are not designed for use in open, easily accessible areas)

**Cable diameter:** 5 – 7 mm  $\varnothing$

**Mating cycles:** 200

**Mating and unmating forces:** Mating force: approx. 10–15 N  
(socket and plug) Unmating force when unlocked: approx. 15–20 N

**Materials:** Connector material  
Insulating parts: Polyamide 6.6 V0, halogen-free (except cable)  
Contacts: Copper alloy, surface-treated

**Processing temperature:**  $-5^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$

**Continuous service temperature:**  $-35^{\circ}\text{C}$  to  $\leq 85^{\circ}\text{C}$   
PVC cable for temperatures  $\leq 70^{\circ}\text{C}$  (including halogen-free)  
Insulating parts for temperatures  $\leq 105^{\circ}\text{C}$

**Fire load:** Please contact factory.

**Rated voltage:** 250 V/4 kV/3  $\triangleq$  IEC 60664 3-pole  
400 V/6 kV/3  $\triangleq$  IEC 60664 5-pole  
Clearances and creepage distances  $\geq 5.5$ mm

**Rated current:** max. 25 A, depending on conductor size

**Conductor size:** 0.5–2.5 mm<sup>2</sup> (AWG 20–14), solid, stranded and fine-stranded  
4mm<sup>2</sup> (AWG 12), solid and fine-stranded

**Contact resistance:** approx. 1 m $\Omega$  contact resistance  
approx. 0.25 m $\Omega$  contact transition plug/socket

**Approvals:** UL, CCA Technique

**Degree of protection:** IP20, with strain relief housing  
(These compact connectors are not designed for use in open, easily accessible areas)

**Cable diameter:** 5-pole strain relief, 8 – 13 mm  $\varnothing$   
5-pole strain relief, 11.5 – 16.5 mm  $\varnothing$

**Mating cycles:** 200, without resistive load  
100, with resistive load  $I_N = 25$ A, tested (4 mm<sup>2</sup>/AWG 12)

**Mating and unmating forces:**  
(socket and plug)  
Mating force: approx. 30 – 70 N (depending on number of poles)  
Unmating force when unlocked: approx. 30 – 70 N (depending on number of poles)  
Retention force when locked: > 80N

**Protection against mismatching:** All WINSTA® components are 100% protected against mismatching 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 versions are factory-equipped with locking levers to ensure plugs and sockets are securely 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 (Cr-Ni)

**Continuous service temperature:** –35 °C to  $\leq$  85 °C  
PVC cable for temperatures  $\leq$  70 °C (including halogen-free)  
PVC flat cable for temperatures –15 °C to  $\leq$  70 °C (including halogen-free)  
Insulating parts for temperatures  $\leq$  105 °C

**General:** First make/last break ground contacts





**Fire load:** Please contact factory.





















## International Certification Organizations – Overview

	Abbreviation for online search		Abbreviation for online search
 <b>Underwriters Laboratories USA</b> <a href="http://www.ul.com">http://www.ul.com</a>	UL	 <b>Danmarks Elektriske Materielkontrol Dänemark</b> <a href="http://www.demko.dk">http://www.demko.dk</a>	<b>DEMKO</b>
 <b>Underwriters Laboratories USA</b> <a href="http://www.ul.com">http://www.ul.com</a>	UL	<b>CENELEC CERTIFICATION AGREEMENT</b>	
 <b>Underwriters Laboratories USA</b> <a href="http://www.ul.com">http://www.ul.com</a>	cURus	 <b>CCA</b> <b>Danmarks Elektriske Materielkontrol Dänemark</b> <a href="http://www.cenelec.org">http://www.cenelec.org</a>	<b>CCA Zul.-Nr. mit DK</b>
 <b>Underwriters Laboratories USA</b> <a href="http://www.ul.com">http://www.ul.com</a>	cULus	 <b>SETI – FEMKO Sähköarkastuskeskus Elinspektionscentralen Finnland</b> <a href="http://www.seti.fi">http://www.seti.fi</a>	
 <b>Canadian Standards Association Kanada</b> <a href="http://www.csa.ca">http://www.csa.ca</a>	CSA	 <b>Sähköarkastuskeskus Elinspektionscentralen Finnland</b> <a href="http://www.fimko.com">http://www.fimko.com</a>	<b>FIMKO</b>
 <b>VDE-Gutachten mit Fertigungsüberwachung Bundesrepublik Deutschland</b> <a href="http://www.vde.de/vde/html/e/home.htm">http://www.vde.de/vde/html/e/home.htm</a>	VDE	<b>SABS</b> <b>South African Bureau of Standards Süd-Afrika</b> <a href="http://www.sabs.co.za">http://www.sabs.co.za</a>	<b>SABS</b>
 <b>VDE – Deutscher Verband für Elektrotechnik Bundesrepublik Deutschland</b> <a href="http://www.vde.de">http://www.vde.de</a>		 <b>RosTest Russland</b> <a href="http://www.rostest.ru">http://www.rostest.ru</a>	<b>ROSTEST</b>
<b>VDE</b> <b>VDE – Prüfbericht Bundesrepublik Deutschland</b>		 <b>Departamentul Moldovastandard Moldawien</b> <a href="http://www.moldova.md/ro/government/oll/D_STAND/en/strcent2.htm">http://www.moldova.md/ro/government/oll/D_STAND/en/strcent2.htm</a>	<b>CSM</b>
 <b>Österreichischer Verband für Elektrotechnik Österreich</b> <a href="http://www.ove.at">http://www.ove.at</a>	ÖVE	 <b>Certificate of Registration Großbritannien</b> <a href="http://www.astacertification.com">http://www.astacertification.com</a>	<b>ASTA</b>
 <b>Schweizerischer Elektrotechnischer Verein Schweiz</b> <a href="http://www.sev.ch/">http://www.sev.ch/</a>	SEV	 <b>Rheinisch-Westfälischer Technischer Überwachungsverein e.V. Bundesrepublik Deutschland</b> <a href="http://www.rwtuv.de">http://www.rwtuv.de</a>	<b>RWTÜV</b>
 <b>N.V. tot Keuring van Elektrotechnische Materialen Niederlande</b> <a href="http://www.kema.nl">http://www.kema.nl</a>	KEMA	 <b>Elektrotechnick ý v ýskumn ý a projektov ý ústav Tschechien</b> <a href="http://www.ezu.cz">http://www.ezu.cz</a>	<b>EZU</b>
<b>CENELEC CERTIFICATION AGREEMENT</b>		 <b>Stowarzyszenie Elektrykow Polskich Polen</b> <a href="http://www.bbj.pl">http://www.bbj.pl</a>	<b>BBJ</b>
 <b>N.V. tot Keuring van Elektrotechnische Materialen Niederlande</b> <a href="http://www.cenelec.org">http://www.cenelec.org</a>	CCA Zul.-Nr. mit NL	 <b>Stowarzyszenie Elektrykow Polskich Polen</b> <a href="http://www.sep.com.pl">http://www.sep.com.pl</a>	<b>SEP</b>
 <b>Norges Elektriske Materialkontroll Norwegen</b> <a href="http://express.nemko.com">http://express.nemko.com</a>	NEMKO		
 <b>Svenska Elektriska Materielkontrollanstalten AB Schweden</b> <a href="http://www.semko.com">http://www.semko.com</a>	SEMKO		

	Abbreviation for online search		Abbreviation for online search
<b>CNET</b> Centre National d'Etudes des Télécommunications Frankreich <a href="http://www.lannion.cnet.fr">http://www.lannion.cnet.fr</a>	<b>CNET</b>	 <b>Robbanásbiztos Villamos Berendezések Ungarn</b> <a href="http://www.bki.hu">http://www.bki.hu</a>	<b>BKI</b>
<b>LCIE</b> Laboratoire Central des Industries Electriques Frankreich <a href="http://www.lcie.fr">http://www.lcie.fr</a>	<b>LCIE</b>	<b>CB</b> <b>CB – TEST CERTIFICATE Indien</b> <a href="http://www.ul-europe.com">http://www.ul-europe.com</a>	<b>CB</b>
 <b>Fyzikálne Technick ý Zkusební Ústav, Ostrava-Radvanice Tschechien</b> <a href="http://www.ftzu.cz">http://www.ftzu.cz</a>	<b>FTZU</b>	<b>CB</b> <b>CB – TEST CERTIFICATE China</b> <a href="http://www.ul-europe.com">http://www.ul-europe.com</a>	<b>CB</b>
		 <b>UL-International Demko A/S Dänemark</b> <a href="http://www.ul-europe.com">http://www.ul-europe.com</a>	<b>ENEC</b>
<b>Shipbuilding approvals</b>		<b>Ex approvals</b>	
 <b>Germanischer Lloyd Bundesrepublik Deutschland</b> <a href="http://www.gl-group.com">http://www.gl-group.com</a>	<b>GL</b>	 <b>Physikalisch Technische Bundesanstalt Bundesrepublik Deutschland Ex e II</b> <a href="http://www.ptb.de">http://www.ptb.de</a>	<b>PTB</b>
<b>BV</b> Bureau Veritas Frankreich <a href="http://www.bureauveritas.fr">http://www.bureauveritas.fr</a>	<b>BV</b>	 <b>Underwriters Laboratories USA</b> <a href="http://www.ul.com">http://www.ul.com</a>	<b>cURus-EX</b>
 <b>Lloyd's Register of Shipping Großbritannien</b> <a href="http://www.lloydsregister.com">http://www.lloydsregister.com</a>	<b>LR</b>	 <b>N.V. tot Keuring van Elektrotechnische Materialen Niederlande</b> <a href="http://www.kemaquality.com">http://www.kemaquality.com</a>	<b>KEMA-EX</b>
 <b>NV – Det Norske Veritas Norwegen</b> <a href="http://www.dnv.com">http://www.dnv.com</a>	<b>DNV</b>	<b>GOSENERGO-Ex GOSENERGONADZOR Russland</b>	<b>GOSENERGO-EX</b>
 <b>Russian Maritime Register of Shipping GUS</b> <a href="http://www.rs-head.spb.ru">http://www.rs-head.spb.ru</a>	<b>RMR</b>	 <b>Fyzikálne Technick ý Zkusební Ústav, Ostrava-Radvanice Tschechien</b> <a href="http://www.ftzu.cz">http://www.ftzu.cz</a>	<b>FTZU</b>
 <b>Polski Rejestr Statków Polen</b> <a href="http://www.prs.pl">http://www.prs.pl</a>	<b>PRS</b>	 <b>Robbanásbiztos Villamos Berendezések Ungarn</b> <a href="http://www.bki.hu">http://www.bki.hu</a>	<b>BKI-EX</b>
 <b>Korean Register of Shipping Korea</b> <a href="http://www.krs.co.kr">http://www.krs.co.kr</a>	<b>KR</b>		
<b>ABS</b> American Bureau of Shipping USA <a href="http://www.eagle.org">http://www.eagle.org</a>	<b>ABS</b>		

# Approvals – User Guide

Updated approvals can be found at [www.wago.com](http://www.wago.com)

## • 1: Select “Country” ①



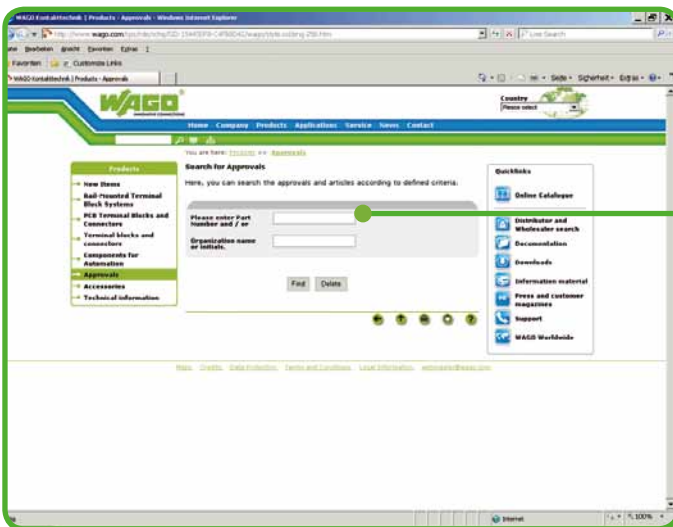
e.g., United Kingdom

## • 2: Select “Products”



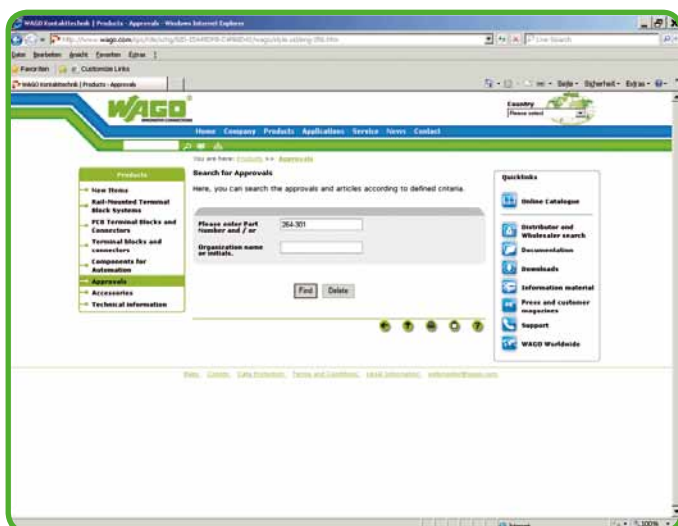
Select “Approvals”

## • 3: “Search for Approvals”



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

① Step 1 is only required if the country has not been detected automatically.



#### • 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 "UR"

Part Number	Organization	Approval No.	Voltage [ V ]	Current [ A ]	Wire Size [ mm <sup>2</sup> ]
264-301	ABS	04-HG476174/1-PDA	800	24	2,5
264-301	BV	07436/C0			0,08-2,5
264-301	CCA	NL6511	800	24	2,5
264-301	CSA	18677-23	600	20	26-12
264-301	DNV	E-9215	800	24	2,5
264-301	GL	17295-00HH	800	24	2,5
264-301	KR	HMB05880-EL002	800	24	
264-301	LR	92/20242(E5)	800	24	2,5
264-301	RMR	11130002	800	24	2,5
264-301	UR	E45172	600/600	20/20	28-12

Search Result a)  
Item Number:

*All approvals related to that product will be displayed.*

Part Number	Organization	Approval No.	Voltage [ V ]	Current [ A ]	Wire Size [ mm <sup>2</sup> ]
222-412	UL	E69654	600	20	28-12"s"/str"
222-413	UL	E69654	600	20	28-12"s"/str"
222-415	UL	E69654	600	20	28-12"s"/str"
224-101	UL	E69654	300	20	14-12"s"/20-16"s"/str"
224-104	UL	E69654	300	20	14-12"s"/20-16"s"/str"
224-112	UL	E69654	300	20	18-16"s"/20-16"s"/str"
224-114	UL	E69654	300	20	18-16"s"/20-16"s"/str"
224-201	UL	E69654	300	20	20-16
273-100	UL	E69654	600	20	20-16"s"
273-101	UL	E69654	600	20	20-16"s"

Search Result b)  
Certification Agency:

*All products approved by that agency will be displayed.*

Part Number	Organization	Approval No.	Voltage [ V ]	Current [ A ]	Wire Size [ mm <sup>2</sup> ]
280-601	UR	E45172	600/600	20/20	28-12
280-602	UR	E45172	600/600	20/20	28-12
280-603	UR	E45172	600/600	20/30	28-12
280-604	UR	E45172	300/300	15/15	28-12
280-606	UR	E45172	300/300	10/10	28-12
280-607	UR	E45172			28-12
280-610	UR	E45172	300/300	10/10	28-12
280-612	UR	E45172	300/300	15/15	28-12
280-616	UR	E45172	300/300	10/10	28-12
280-621	UR	E45172	300/300	15/15	28-12

Search Result c)  
Certification Agency and Item Numbers:

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



## Electrical Engineering Laboratory: Product Safety for Our Customers

The WAGO laboratory in Minden is an “accredited test lab for electrical and mechanical tests on terminal blocks and connectors, as well as for environment simulations.”

Accreditation, as ISO/IEC 17011:2004 defines, is a third party-attestation related to a conformity assessment body conveying formal demonstration of its competence to carry out specific conformity assessment tasks.

Accreditation, according to DIN EN ISO/IEC 17025, is granted by the Deutsche Akkreditierungsstelle GmbH DAKKS (German Accreditation Office GmbH DAKKS). This national accreditation office, which was established by the German Federal Ministry for Economics and Technology (BMWi), certifies that our test laboratory is officially recognized as possessing the necessary expertise to conduct defined tests and types of tests independently and objectively.

Through obtaining the accreditation, the following objectives were achieved:

- Customer requirements
- Workflow optimization
- Clearly defined processes
- Clear organization and structure
- Greater transparency
- Consistent, high-quality laboratory testing
- Maximum traceability
- Traceable measurement results
- Sustainable quality awareness



• Visitor center



• Conductor retention force testing

• High-voltage test



• Vibration- and shock-resistance testing





Deutsche  
Gesellschaft für  
Akkreditierung mbH  **DGA Deutsche Gesellschaft für Akkreditierung mbH**

Unterzeichner der Multilateralen Abkommen von  
EA und ILAC zur gegenseitigen Anerkennung

vertreten im

# Deutschen Akkreditierungsrat



## Akkreditierung

Die **DGA Deutsche Gesellschaft für Akkreditierung mbH** bestätigt hiermit, dass das  
Prüflaboratorium

**WAGO Kontakttechnik GmbH & Co. KG**  
Hansastraße 27  
D-32423 Minden / Germany

die Kompetenz nach DIN EN ISO/IEC 17025 besitzt, Prüfungen in den Bereichen

**Elektrische und mechanische Prüfungen an Klemmen und Steckverbinder  
sowie Umweltsimulation**

auszuführen. Die Anlage ist Bestandteil der Urkunde und besteht aus 6 Seiten.  
Die Akkreditierung ist gültig vom **2009-12-22** bis **2014-12-21**.  
DAR- Registriernummer: **DGA-PL-302/09-00**

Frankfurt, 2009-12-22

  
Dipl.-Ing. (FH) Ralf Egner  
Leiter der Abteilung Elektrotechnik/IT

Mitglied in EA, ILAC, IAF

Siehe Hinweise auf der Rückseite

# WAGO Seminars – Learn Today

## Benefit Tomorrow



Innovative ideas and advanced technology are the driving forces behind the development and creation of WAGO's market-leading products.

**Maximize the benefits** of WAGO products **through optimal application knowledge** gained at WAGO training seminars. The skills and expertise gained in our effective, user-oriented presentations will save you time and help you use our products to their fullest capacity.



## Setting the Bar with Your Goals

Product-related and customer-specific training seminars



### Small Groups

No question goes unanswered and no one is overlooked in WAGO training courses made up of small groups.



### Teamwork

Learning is effective in a group. Ideas can be discussed and exchanged while experiences can be shared – all for the benefit of the participants.



### Practical Topics

Experience has shown that – practice makes perfect. The focus of every WAGO training seminar is on practical, hands-on learning.

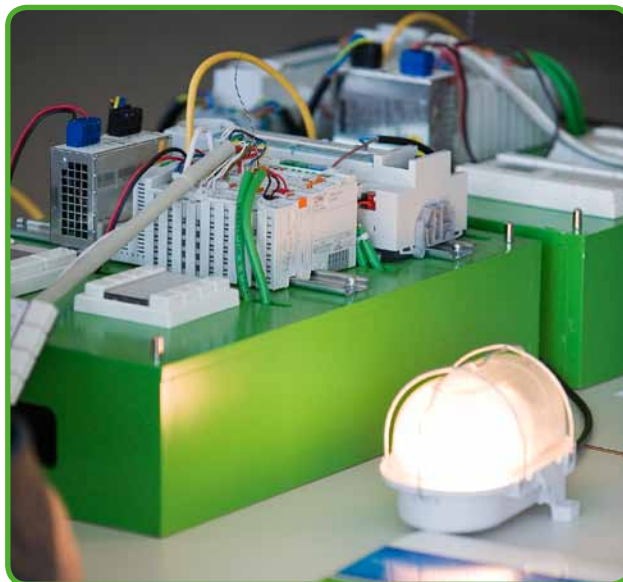
**WAGO Seminars – Experience the benefits of first-hand knowledge and expertise – straight from the source!**

Your instructor is a specialist and knows all the ins and outs of the topic. Carefully developed, each WAGO training seminar ensures that every minute spent is an effective investment of your expertise.

Request your registration form by e-mail:

**training@wago.com**

**Contact Your Local  
WAGO Company.**



### Product-Related Seminars

We regularly offer product-related training courses on the following:

- Building and industrial automation
- Programming of automation components
- Fieldbus systems

*Current seminars at:*  
[www.wago.com/seminare](http://www.wago.com/seminare)

### Customer-Specific Training Seminars

In addition to these “open” seminars, we also offer customer-specific courses as company seminars to address your company’s particular needs.

Upon request, we can also conduct these courses at your location.

*Special  
company seminars*

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f.-e. = front-entry, s.-e. = side-entry



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