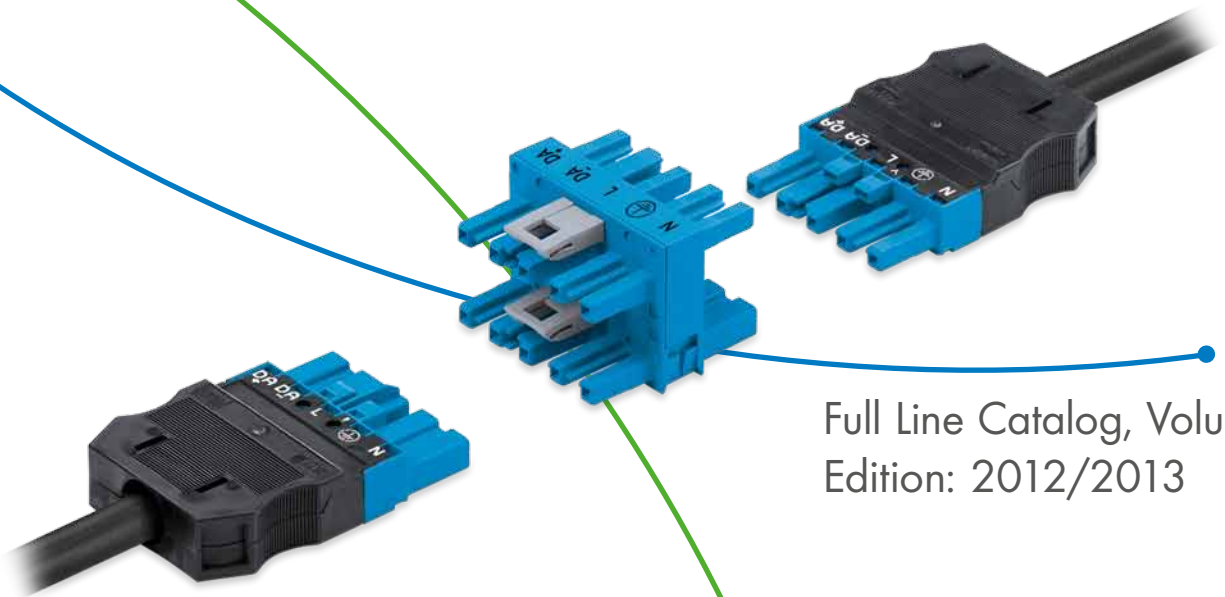


WINSTA® The Pluggable Connection System



Full Line Catalog, Volume 5
Edition: 2012/2013

5

WAGO®

WAGO Registered Trademarks



CAGE CLAMP®

CAGE CLAMP® 

POWER CAGE CLAMP

FIT CLAMP®

PUSH WIRE®

TOPJOB®

TOPJOB® 

WINSTA®

WAGO®

X-COM®

X-COM® 

JUMPFLEX®

TO-PASS®

ProServe®

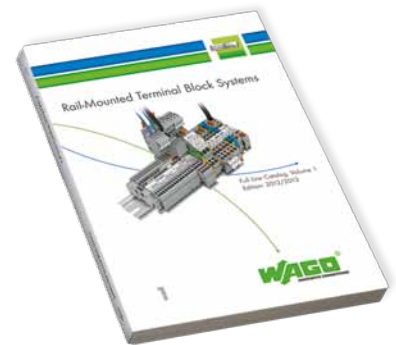
EPSITRON®

picoMAX®

WAGO Full Line Catalogs

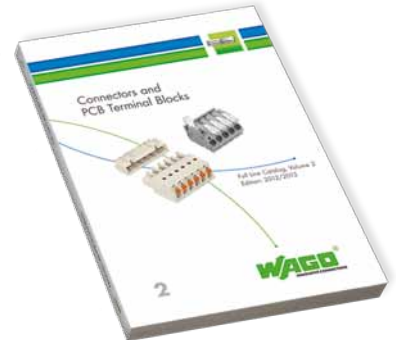
Volume 1, Rail-Mounted Terminal Block Systems

- 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 mm²)

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.

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WINSTA® MINI 890/891 Series; 2-, 3-, 4- and 5-Pole 6 - 37
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 Cable Assemblies



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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,
 PCB Connectors, Distribution Connectors, Cable Assemblies,
 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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 Cable Assemblies



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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



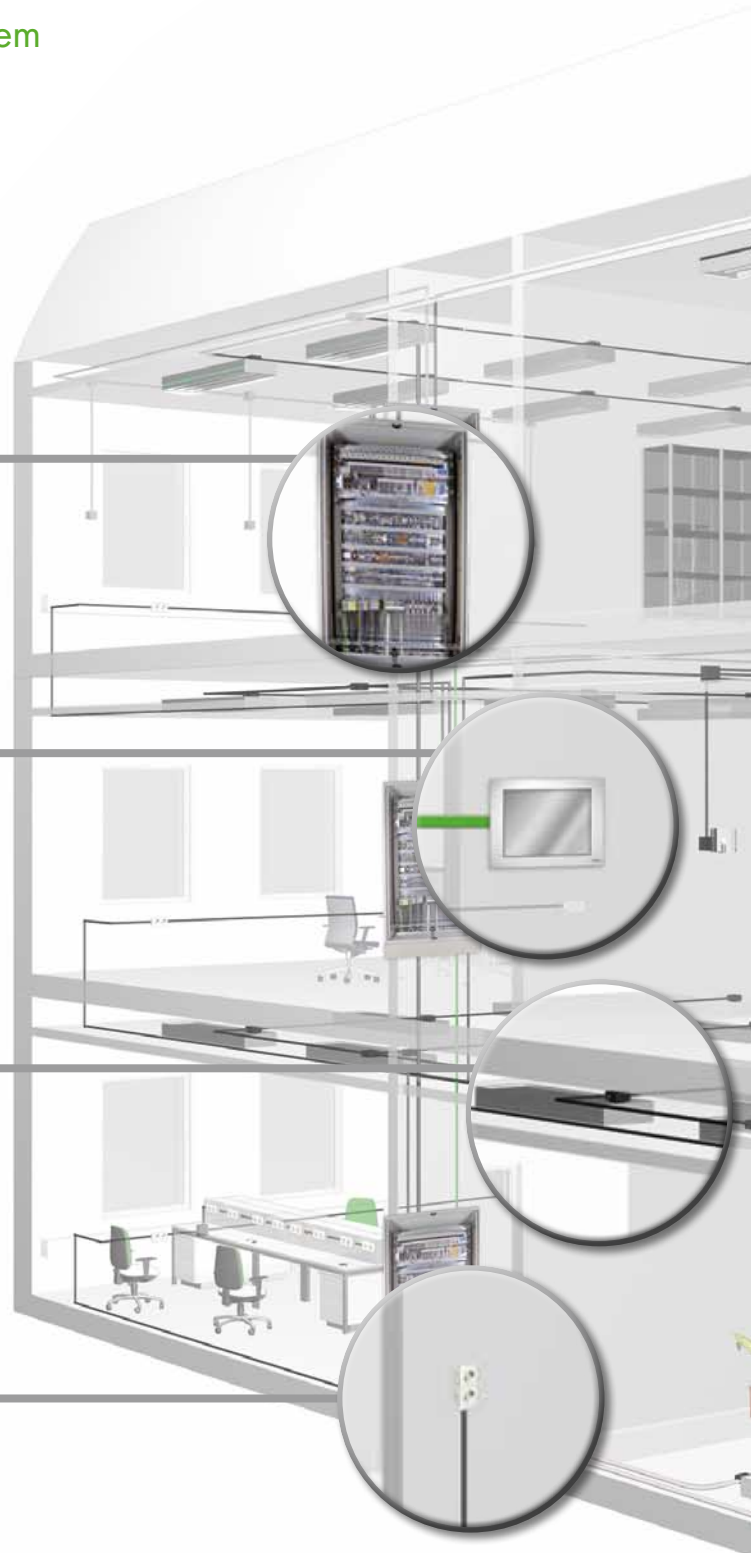
WINSTA® MINI/ WINSTA® MINI special

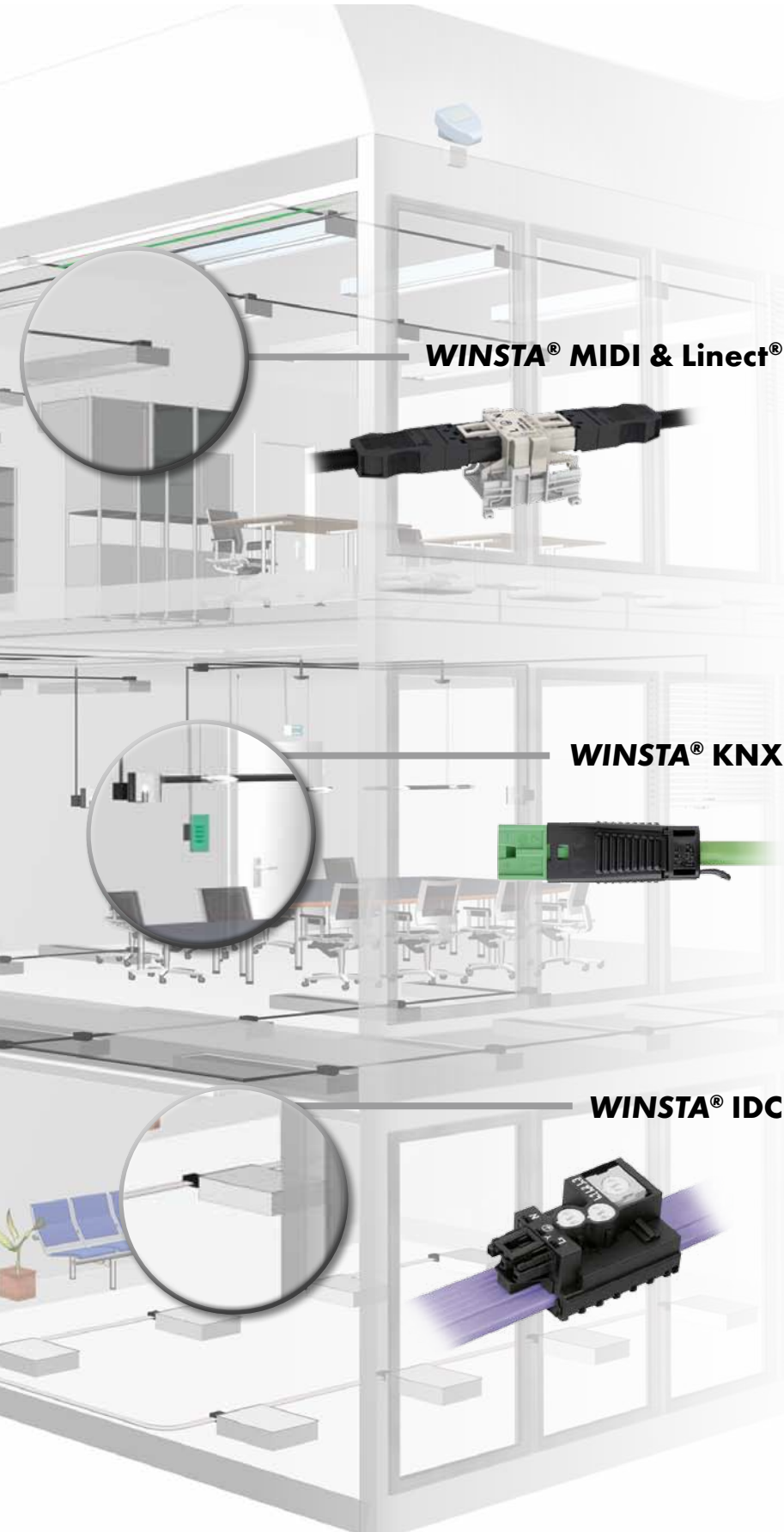


WINSTA® MIDI/ WINSTA® MIDI special



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

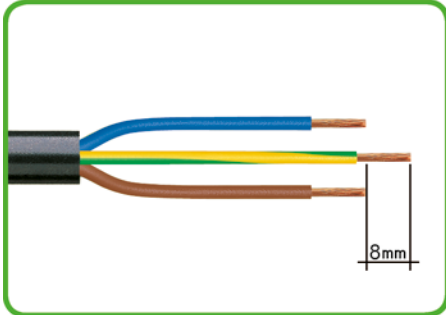
- Cable Assemblies, 2-Pole
- Cable Assemblies, 3-Pole
- Cable Assemblies, 4-Pole
- Cable Assemblies, 5-Pole

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22 - 23
28 - 29
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1 Handling WINSTA® MINI, 890 Series

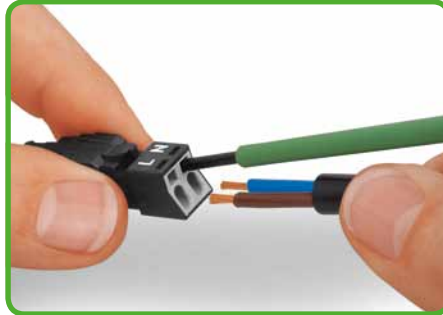
8

Preparation



1. Strip length, outer insulation = x mm ¹
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



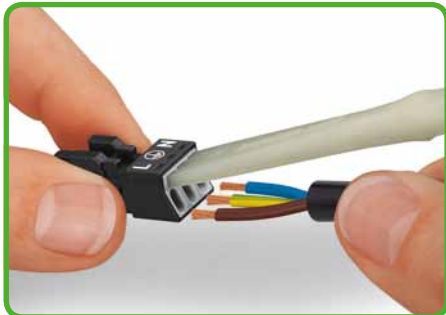
Latch wired connector onto the base of the strain relief housing.

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.

¹ 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.

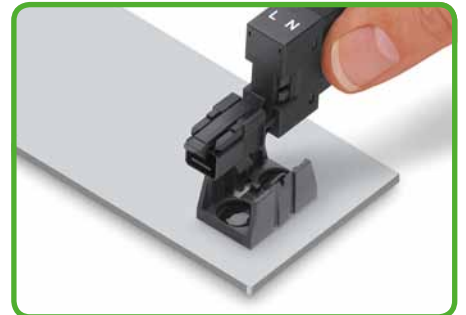


Mounting plate installation



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 mm² ① 250 V/4 kV/3 I_N 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p> <p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 16 A</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, 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

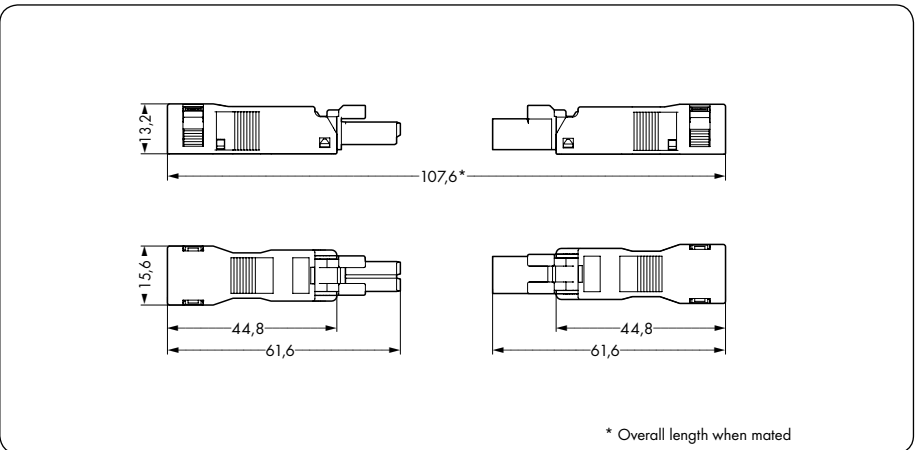
Info	Dimensions
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

① Conductor sizes: 0.25 – 1.5 mm² “s + f-st”
0.25 – 1 mm² “stranded”

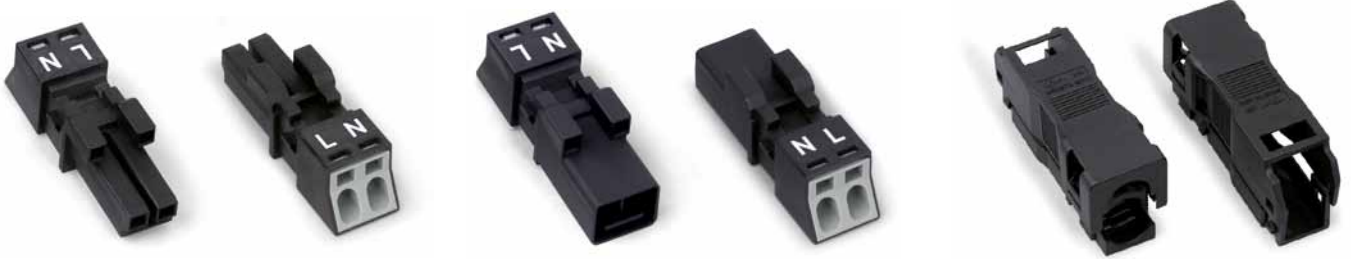
② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.

● 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 mm² ① 250 V/4 kV/3 I_N 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 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"> - 2-pole sockets - 2-pole plugs
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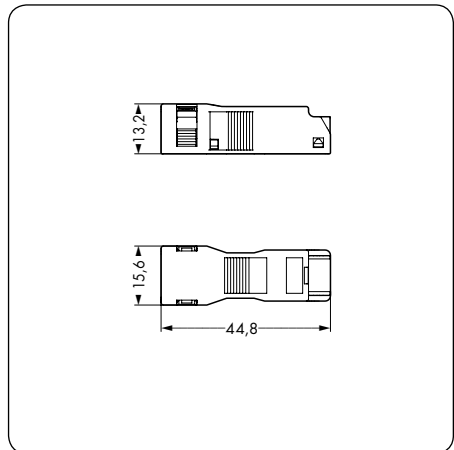
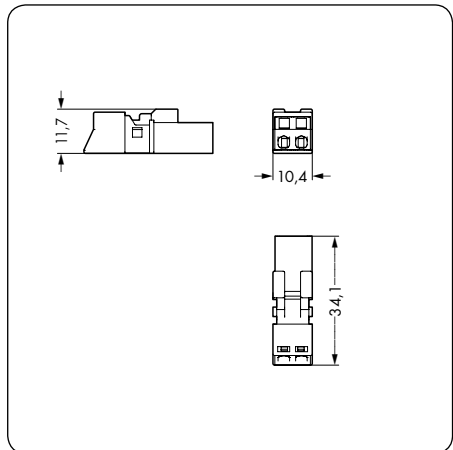
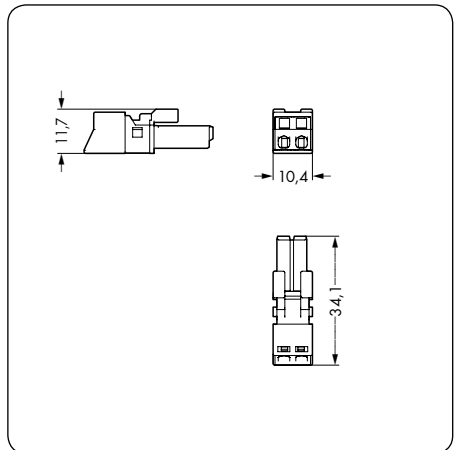


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket without strain relief housing			Plug without strain relief housing			Strain relief housing, for 3.8 – 8.2 mm cable diameter		
● black	890-202	50	● black	890-212	50	black	890-502	50
○ white	890-222	50	○ white	890-232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

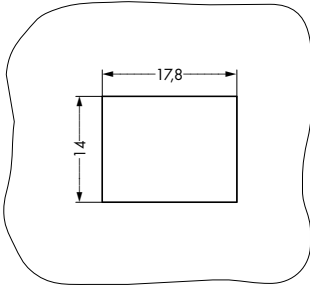
Item-Specific Accessories								
Operating tool, insulated 2-pole			Operating tool, insulated 2-pole					
	890-392	1		890-392	1			

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			

Dimensions



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



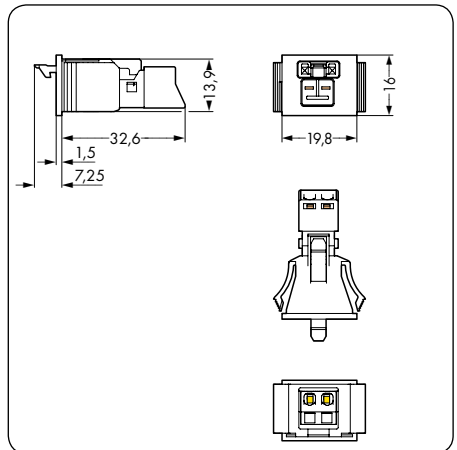
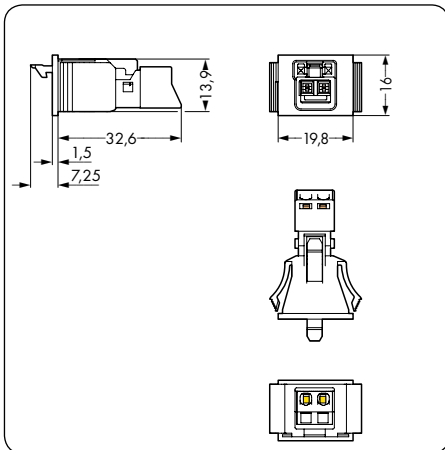
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 2-pole, with CAGE CLAMP®S connection	Socket			Plug		
	● black	890-702	50	● black	890-712	50
	○ white	890-722	50	○ white	890-732	50
	● blue	890-2102	50	● blue	890-2112	50

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	890-642 100	
		white	890-692 100	white	890-692 100	

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

- ① Conductor sizes: 0.25 – 1.5 mm² "s + f-st" 0.25 – 1 mm² "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_N 16 A</p> <p>② Approvals</p>	<p>250 V/4 kV/3 I_N 16 A</p> <p>② Approvals</p>
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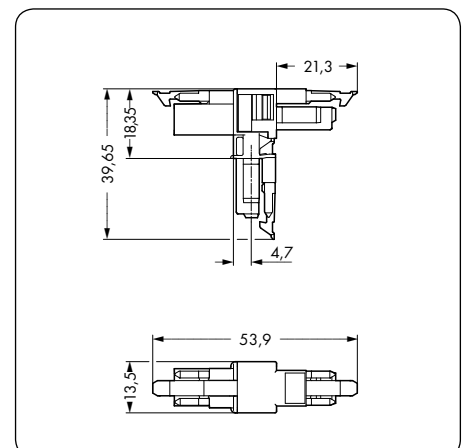
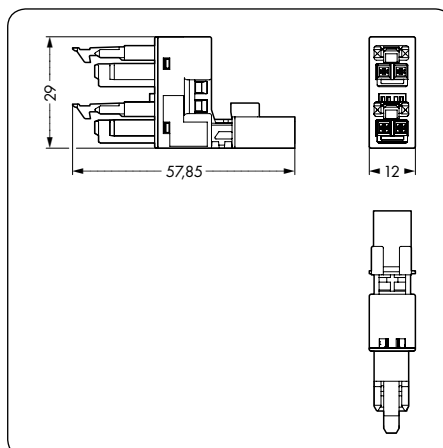



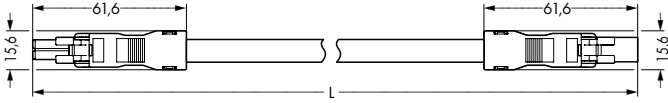

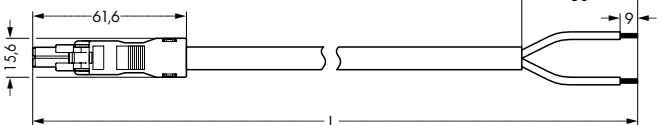

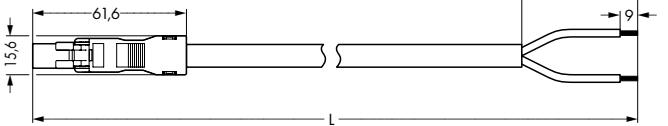


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
h-distribution connector, 2-pole	h-distribution connector, unidirectional, plug / socket - socket			T-distribution connector, 1 x plug / 2 x socket		
T-distribution connector, 2-pole	● black	890-1634	50	● black	890-1606	25
	○ white	890-1684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

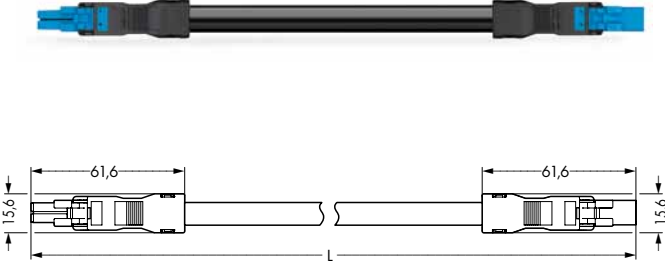

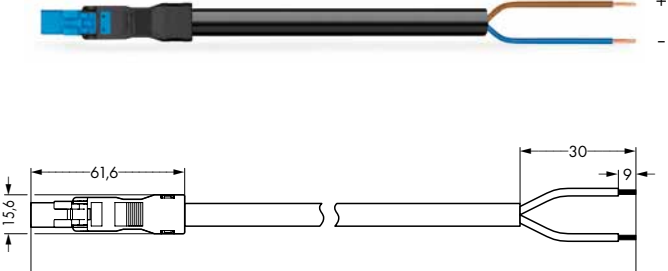


Item-Specific Accessories						
Mounting plate , for distribution connectors						
			black	890-1622	100	
			white	890-1672	100	
Fixing pin , for mounting plates						
			● black	890-601	250	

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)


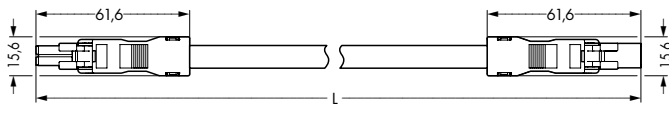

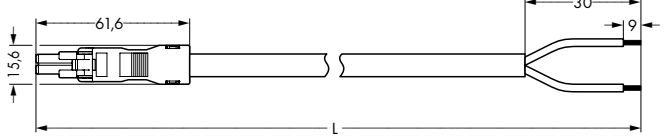

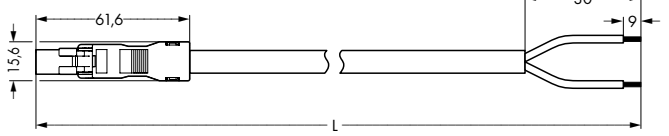


Dimensions





		PVC H05VV-F 2x1 halogen-free H05Z1 Z1-F 2x1 250 V/4 kV/3 I _N 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 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
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	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
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	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_N 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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Interconnecting cable, socket – plug		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A		PVC halogen-free		
		1 m	891-8992/006-101	.../006-102	891-8992/016-101	.../016-102
		2 m	891-8992/006-201	.../006-202	891-8992/016-201	.../016-202
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		● ○ Coding A		PVC halogen-free		
		1 m	891-8992/106-101	.../106-102	891-8992/116-101	.../116-102
		2 m	891-8992/106-201	.../106-202	891-8992/116-201	.../116-202
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		7 m	891-8992/106-701	.../106-702	891-8992/116-701	.../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	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
		5 m	891-8992/206-501	.../206-502	891-8992/216-501	.../216-502
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Sockets and Plugs, 3-Pole

<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 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>Operating tool, insulated 3-pole</p>  <p>890-393 1</p>	<p>Operating tool, insulated 3-pole</p>  <p>890-393 1</p>
		<p>Shield connecting plate, for plugs and sockets 3-way</p>  <p>890-523 1</p>

Accessories, 890 Series

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

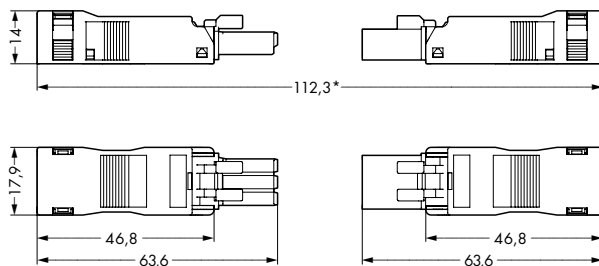
Info

Dimensions



- ① Conductor sizes: 0.25 – 1.5 mm² “s + f-st”
0.25 – 1 mm² “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 mm² ① 250 V/4 kV/3 I_N 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 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"> - 3-pole sockets - 3-pole plugs
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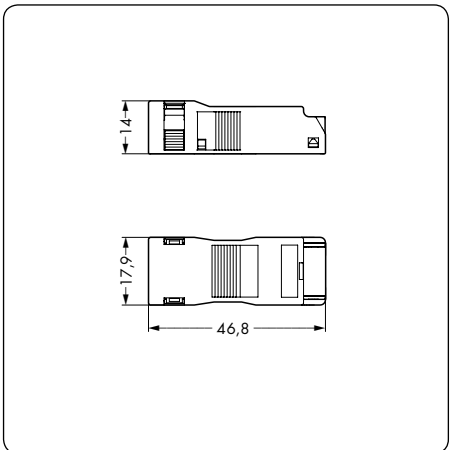
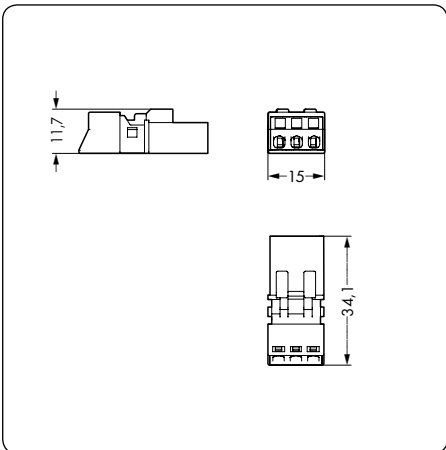
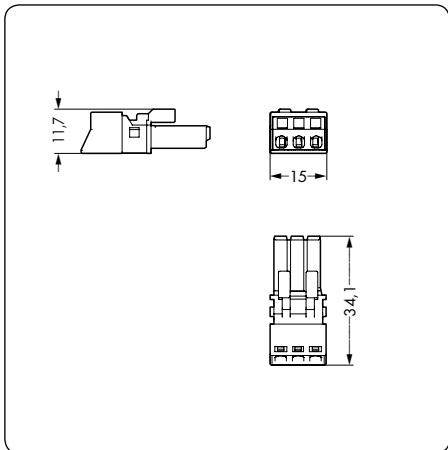


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket without strain relief housing			Plug without strain relief housing			Strain relief housing, for 4.5 – 10 mm cable diameter		
● black	890-203	50	● black	890-213	50	black	890-503	50
○ white	890-223	50	○ white	890-233	50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

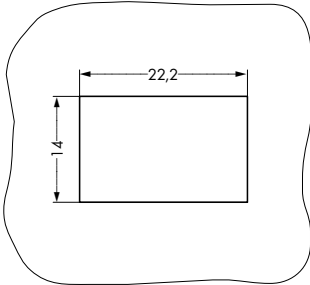
Item-Specific Accessories								
Operating tool, insulated 3-pole			Operating tool, insulated 3-pole			Shield connecting plate, for plugs and sockets		
	890-393	1		890-393	1		890-523	50

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			

Dimensions



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



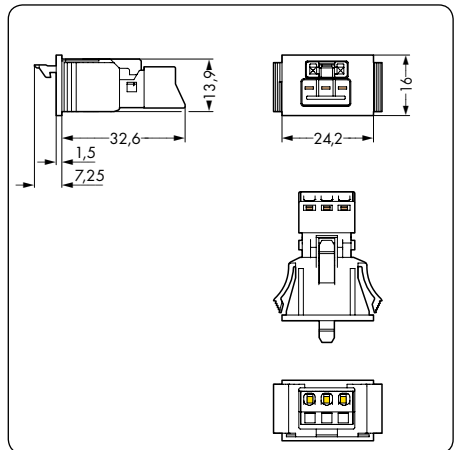
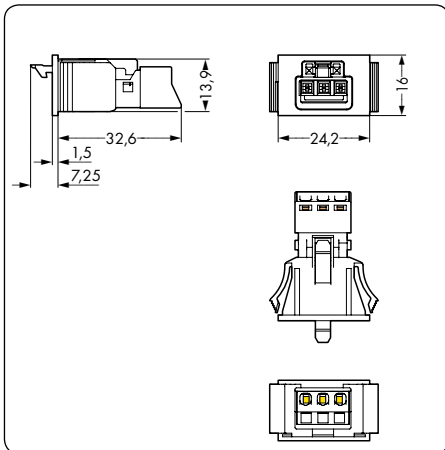
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 3-pole, with CAGE CLAMP® S connection	Socket			Plug		
	● black	890-703	50	● black	890-713	50
	○ white	890-723	50	○ white	890-733	50
	without locking lever, for lighting installation with intermediate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

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	black	890-643
		white	890-693	100	white	890-693

Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm² "s + f-st"
0.25 – 1 mm² "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_N 16 A ② Approvals	250 V/4 kV/3 I_N 16 A ② Approvals	250 V/4 kV/3 I_N 16 A ② Approvals
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Intermediate coupler, 1 x plug / 1 x socket			h-distribution connector, unidirectional, plug / socket - socket			T-distribution connector, 1 x plug / 2 x socket		
● black	890-603	50	● black	890-634	50	● black	890-606	25
○ white	890-653	50	○ white	890-684	50	○ white	890-656	25
At least one snap-in connector WITHOUT 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	890-636	50	● black	890-636	50	● black	890-615	25
○ white	890-686	50	○ white	890-686	50	○ white	890-665	25

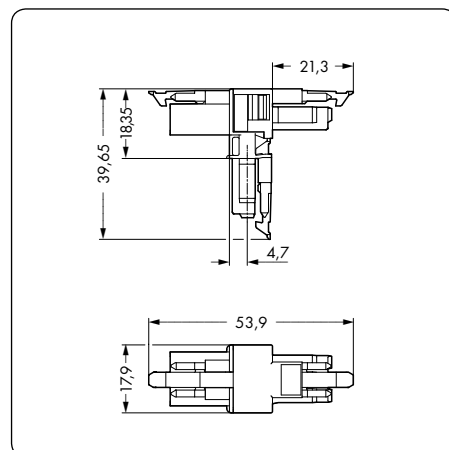
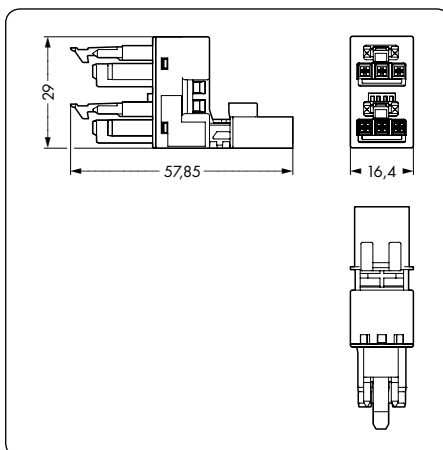
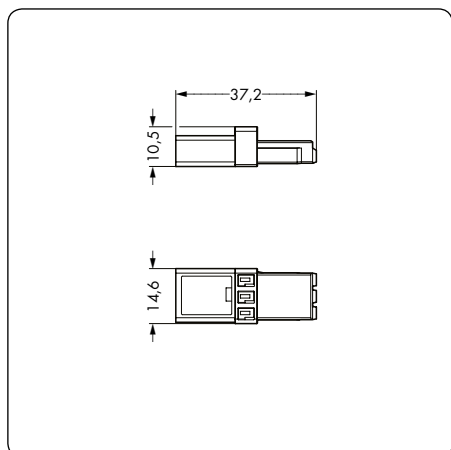
Item-Specific Accessories

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

Accessories, 890 Series


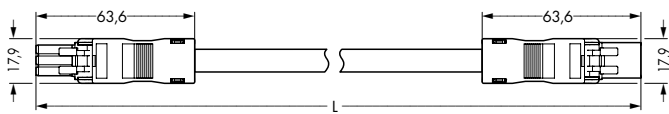

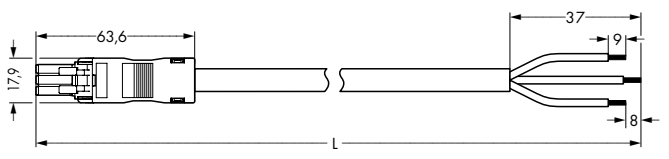

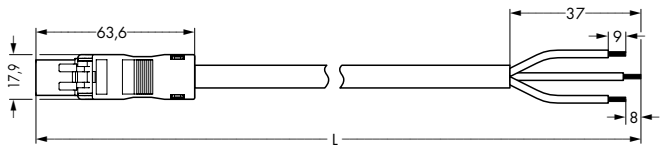


Locking lever, for "flying leads," tool operated			Locking lever, for "flying leads," tool operated		
	black	890-111 100 (2x50)		black	890-111 100 (2x50)
	white	890-131 100 (2x50)		white	890-131 100 (2x50)

Dimensions



		PVC H05VV-F 3G1 halogen-free H05Z1Z1-F 3G1 250 V/4 kV/3 I _N 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 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
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	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
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	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
Info		Accessories				
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 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						

Cable Assemblies 3 x 1.5 mm²

		PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5 250 V/4 kV/3 I _N 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	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
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	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
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	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
		Accessories				
		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	

Sockets and Plugs, 4-Pole

<p>0.25 – 1.5 mm² ① 400 V/6 kV/3 I_N 16 A</p> <p>AWG 22 – 16</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>0.25 – 1.5 mm² ① 400 V/6 kV/3 I_N 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).

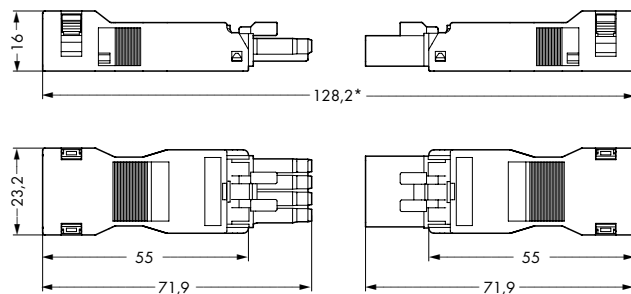


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 6.5 – 10.5 mm cable diameter			Plug with strain relief housing, for 6.5 – 10.5 mm cable diameter		
	● black	890-104	50	● black	890-114	50
	○ white	890-124	50	○ white	890-134	50
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					

- ① Conductor sizes: 0.25 – 1.5 mm² "s + f-st"
0.25 – 1 mm² "stranded"
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

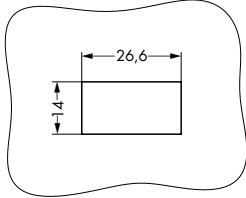
- black Coding A (N ⊕ 2|L 1|L)
- white Coding A (N ⊕ 2|L 1|L)

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



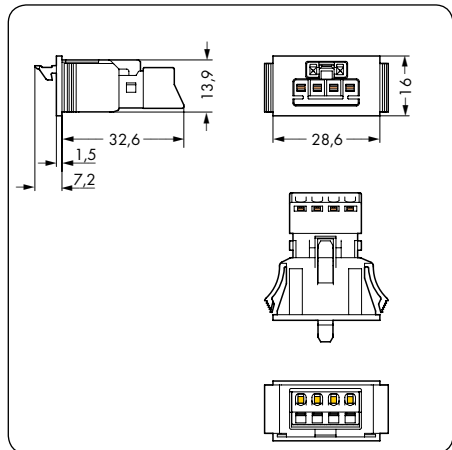
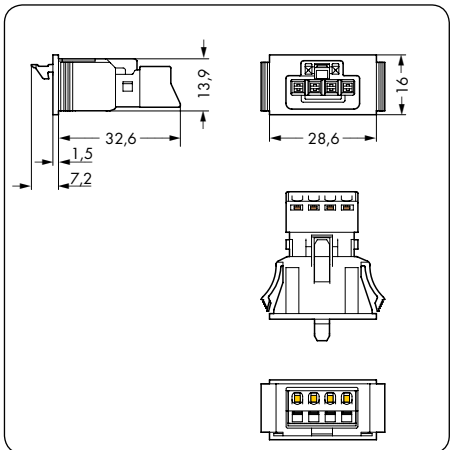
* Overall length when mated

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm ² ① AWG 22 – 16 400 V/6 kV/3 I _N 16 A 3	0.25 – 1.5 mm ² ① AWG 22 – 16 400 V/6 kV/3 I _N 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 mm² "s + f-st"
0.25 – 1 mm² "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

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

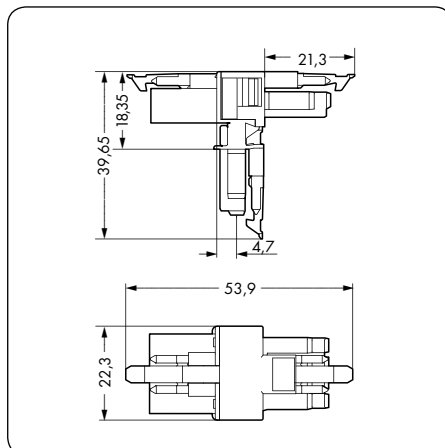
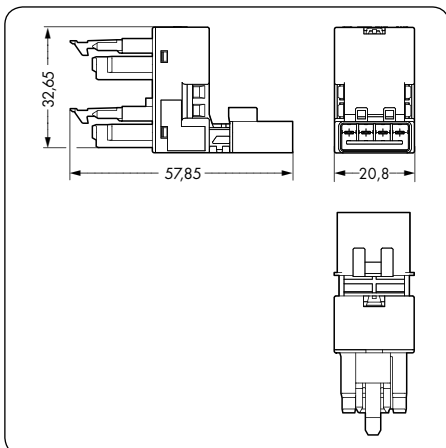
Item-Specific Accessories


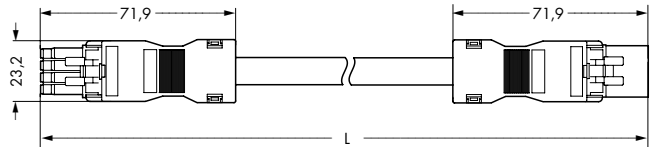

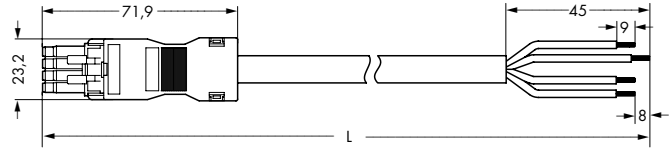

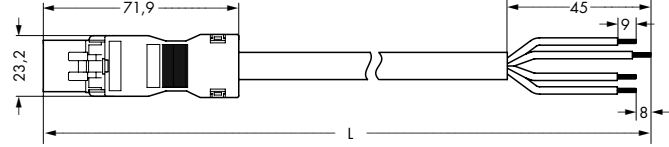


Mounting plate, for distribution connectors					
	black	890-624	50		
	white	890-674	50		
Fixing pin, for mounting plates					
	③ black	890-601	250		

Accessories, 890 Series

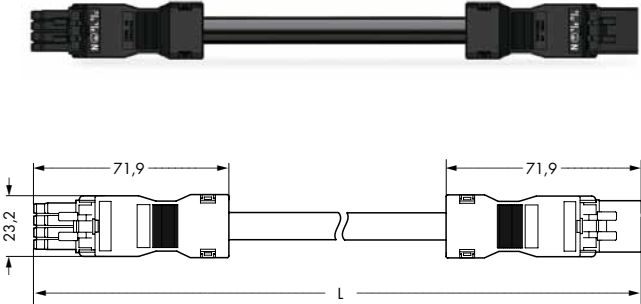
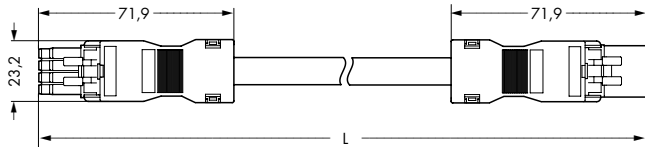
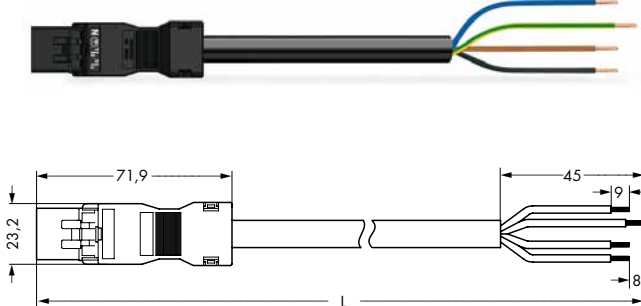
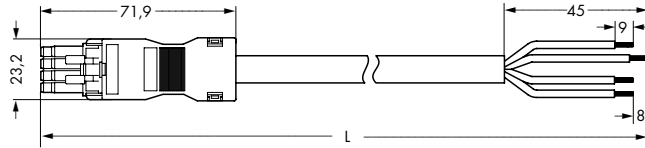

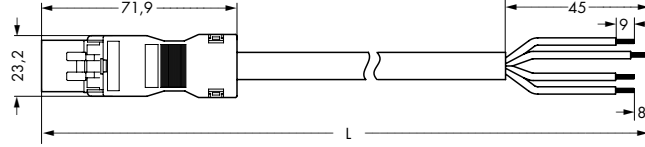


Locking lever, for "flying leads," tool operated			Locking lever, for "flying leads," tool operated		
	black	890-111	100 (2x50)		black 890-111 100 (2x50)
	white	890-131	100 (2x50)		white 890-131 100 (2x50)

Dimensions





		PVC H05VV-F 4G1 halogen-free H05Z1Z1-F 4G1 400 V/6 kV/3 I _N 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 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
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	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
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	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
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 (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 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				

Cable Assemblies 4 x 1.5 mm²

		PVC H05VV-F 4G1.5 halogen-free H05Z1Z1-F 4G1.5 400 V/6 kV/3 I _N 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	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
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	891-8994/106-101	.../106-102	891-8994/116-101	.../116-102
		2 m	891-8994/106-201	.../106-202	891-8994/116-201	.../116-202
		3 m	891-8994/106-301	.../106-302	891-8994/116-301	.../116-302
		5 m	891-8994/106-501	.../106-502	891-8994/116-501	.../116-502
		7 m	891-8994/106-701	.../106-702	891-8994/116-701	.../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	891-8994/206-101	.../206-102	891-8994/216-101	.../216-102
		2 m	891-8994/206-201	.../206-202	891-8994/216-201	.../216-202
		3 m	891-8994/206-301	.../206-302	891-8994/216-301	.../216-302
		5 m	891-8994/206-501	.../206-502	891-8994/216-501	.../216-502
		7 m	891-8994/206-701	.../206-702	891-8994/216-701	.../216-702
		Accessories				
		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				

Sockets and Plugs, 5-Pole

<p>0.25 – 1.5 mm² ① 400 V/6 kV/3 I_N 13 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm² ① 400 V/6 kV/3 I_N 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).

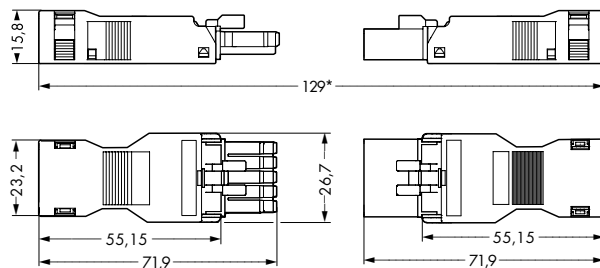


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 5-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 6.5 – 10.5 mm cable diameter			Plug with strain relief housing, for 6.5 – 10.5 mm cable diameter		
	● black	890-105	50	● black	890-115	50
	○ white	890-125	50	○ white	890-135	50
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					



- ① Conductor sizes: 0.25 – 1.5 mm² “s + f-st”
0.25 – 1 mm² “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.

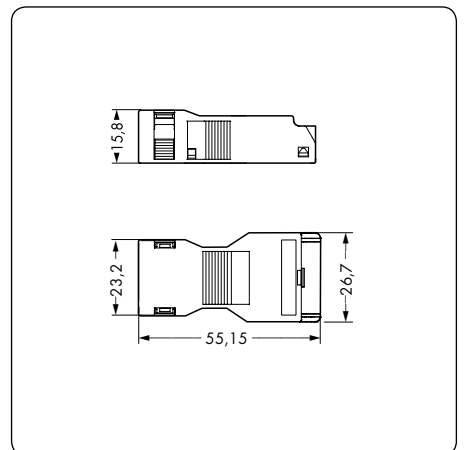
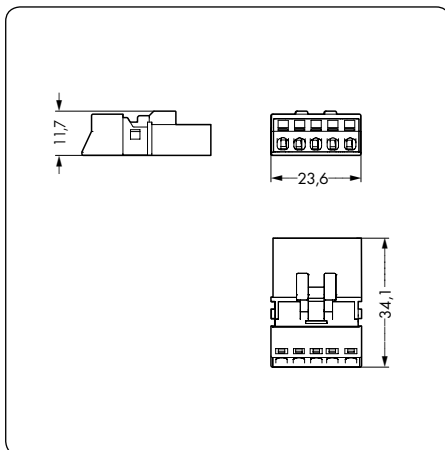
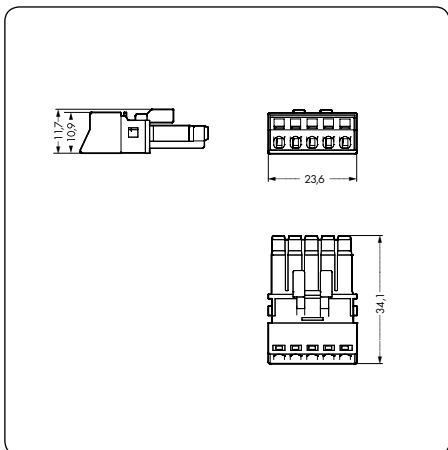


* Overall length when mated

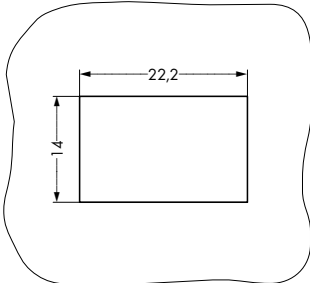
<p>0.25 – 1.5 mm² ① AWG 22 – 16 400 V/6 kV/3 I_N 13 A / 16 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>0.25 – 1.5 mm² ① AWG 22 – 16 400 V/6 kV/3 I_N 13 A / 16 A ③</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>Snap-on type strain relief housings for: - 3-pole sockets - 3-pole plugs</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket without strain relief housing			Plug without strain relief housing			Strain relief housing, for 6.5 – 10.5 mm cable diameter		
● 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								
Locking lever, for "flying leads," tool operated black 890-111 100 (2x50) white 890-131 100 (2x50)			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			Mounting carrier, for 2- to 5-pole "flying leads" black 890-310 100 white 890-311 100					
Dimensions								

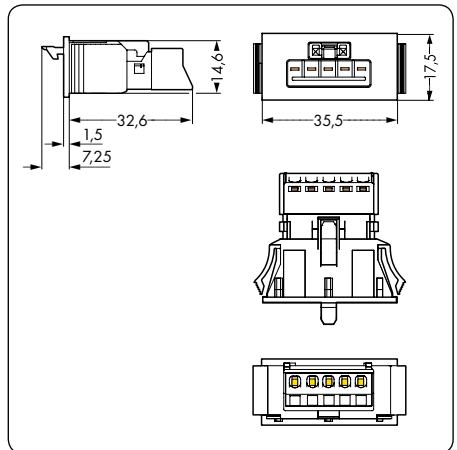
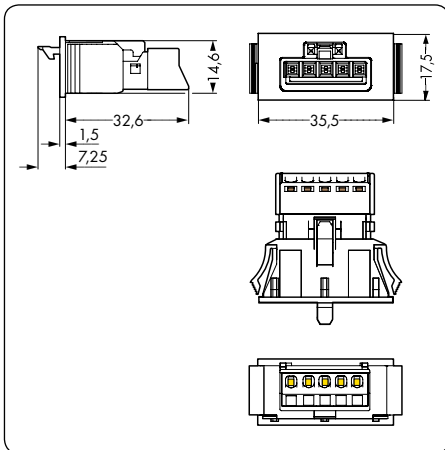


Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm ² ① AWG 22 – 16 400 V/6 kV/3 I _N 13 A / 16 A ③	0.25 – 1.5 mm ² ① AWG 22 – 16 400 V/6 kV/3 I _N 13 A / 16 A ③
	9 mm / 0.35 in ② Approvals	9 mm / 0.35 in ② Approvals



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 5-pole, with CAGE CLAMP® S connection	Socket			Plug		
	● 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
Accessories, 890 Series						
	Lockout cap, for cutout, 5-pole			Lockout cap, for cutout, 5-pole		
		black 770-643	100		black 770-643	100
		white 770-693	100		white 770-693	100
Info	Dimensions					

- ① Conductor sizes: 0.25 – 1.5 mm² "s + f-st"
0.25 – 1 mm² "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
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Intermediate coupler , 1 x plug / 1 x socket			h-distribution connector, plug/socket - socket			T-distribution connector, 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 WITHOUT 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	890-930	50	● black	890-622	50
○ white	890-980	50	○ white	890-980	50	○ white	890-672	50
● blue	890-983	50	● blue	890-983	50	● blue	890-620	50

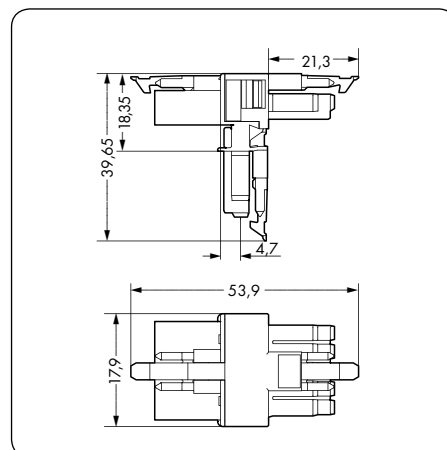
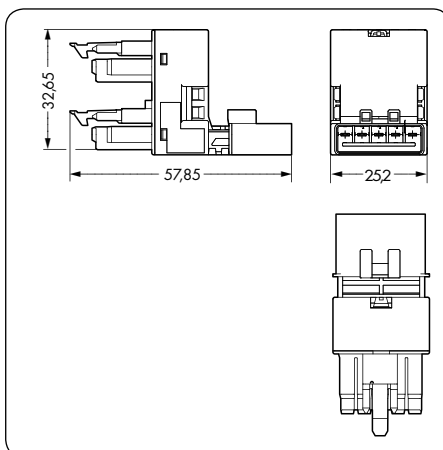
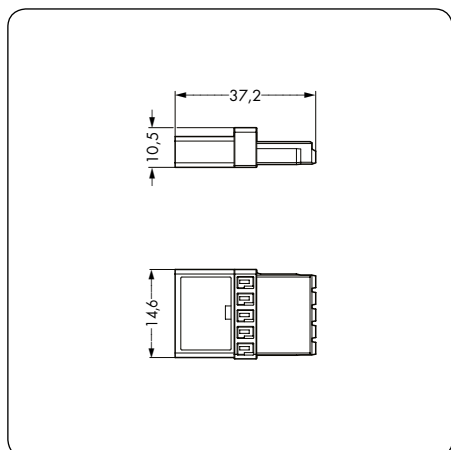
Item-Specific Accessories


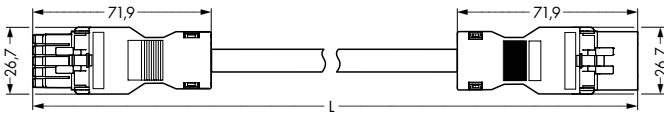

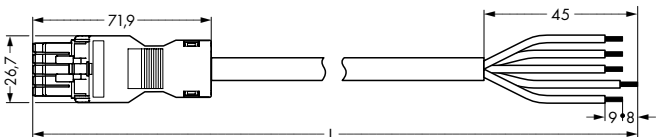

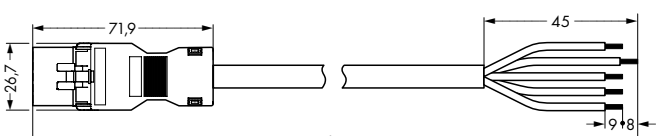


Mounting plate, for distribution connectors		
	black	890-625 50
	white	890-675 50
Fixing pin, for mounting plates		
	④ black	890-601 250

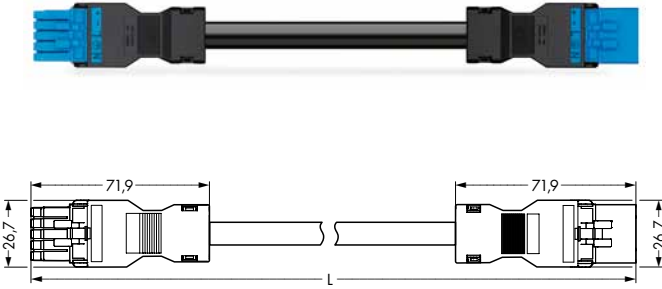
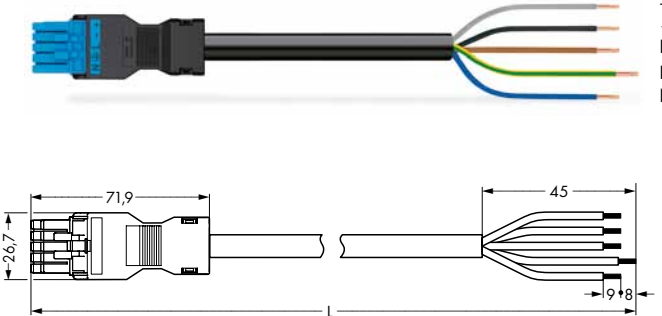
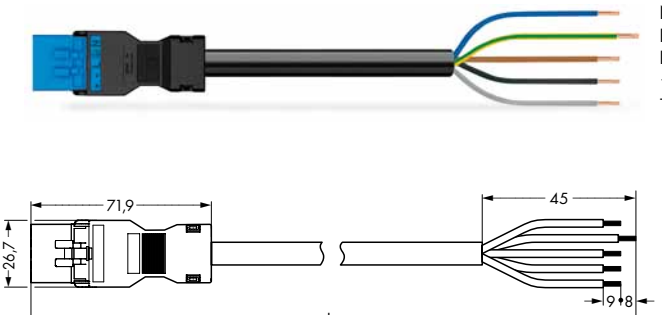
Accessories, 890 Series

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)

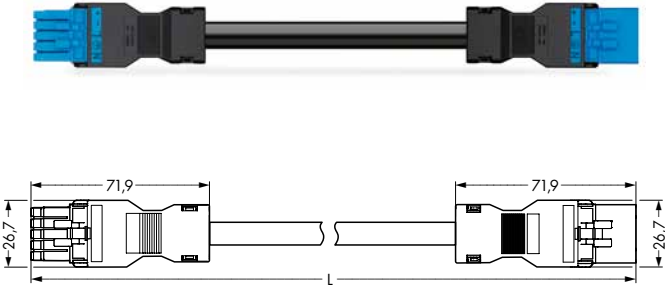
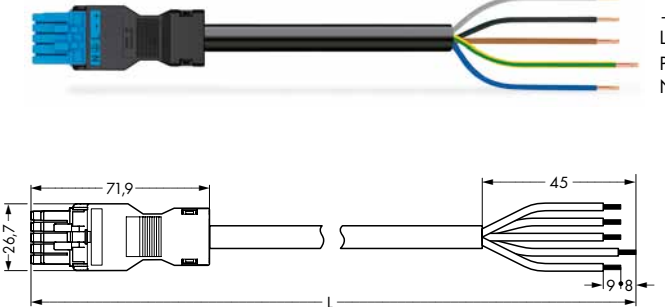
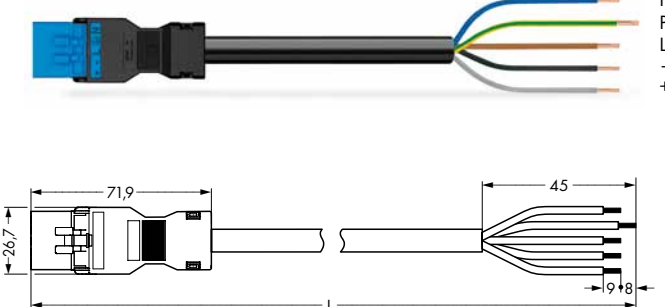


Dimensions

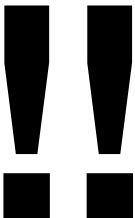
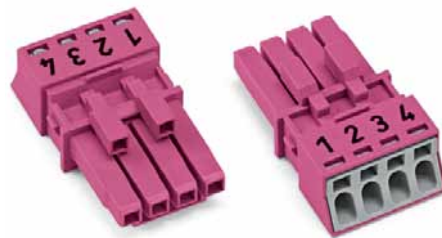
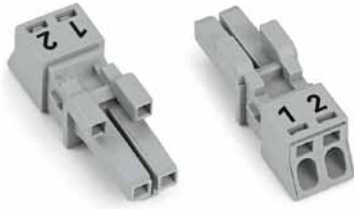


		PVC H05VV-F 5G1 halogen-free H05Z1Z1-F 5G1 400 V/6 kV/3 I _N 10 A Conductor ends, bonded: 9 mm ① Approvals				
Interconnecting cable, socket – plug		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		● ○ Coding A	PVC halogen-free			
		1 m	891-8995/005-101	.../005-102	891-8995/015-101	.../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
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	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
		3 m	891-8995/105-301	.../105-302	891-8995/115-301	.../115-302
		5 m	891-8995/105-501	.../105-502	891-8995/115-501	.../115-502
		7 m	891-8995/105-701	.../105-702	891-8995/115-701	.../115-702
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	891-8995/205-101	.../205-102	891-8995/215-101	.../215-102
		2 m	891-8995/205-201	.../205-202	891-8995/215-201	.../215-202
		3 m	891-8995/205-301	.../205-302	891-8995/215-301	.../215-302
		5 m	891-8995/205-501	.../205-502	891-8995/215-501	.../215-502
		7 m	891-8995/205-701	.../205-702	891-8995/215-701	.../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 (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_N 10 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<p>Interconnecting cable, socket – plug</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 I, e.g., for dimming function (DALI)</td> </tr> <tr> <td colspan="2">PVC</td> <td colspan="3">halogen-free</td> </tr> <tr> <td>1 m</td> <td>891-8985/005-101</td> <td>.../005-102</td> <td>891-8985/015-101</td> <td>.../015-102</td> </tr> <tr> <td>2 m</td> <td>891-8985/005-201</td> <td>.../005-202</td> <td>891-8985/015-201</td> <td>.../015-202</td> </tr> <tr> <td>3 m</td> <td>891-8985/005-301</td> <td>.../005-302</td> <td>891-8985/015-301</td> <td>.../015-302</td> </tr> <tr> <td>5 m</td> <td>891-8985/005-501</td> <td>.../005-502</td> <td>891-8985/015-501</td> <td>.../015-502</td> </tr> <tr> <td>7 m</td> <td>891-8985/005-701</td> <td>.../005-702</td> <td>891-8985/015-701</td> <td>.../015-702</td> </tr> </tbody> </table>	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	891-8985/005-101	.../005-102	891-8985/015-101	.../015-102	2 m	891-8985/005-201	.../005-202	891-8985/015-201	.../015-202	3 m	891-8985/005-301	.../005-302	891-8985/015-301	.../015-302	5 m	891-8985/005-501	.../005-502	891-8985/015-501	.../015-502	7 m	891-8985/005-701	.../005-702	891-8985/015-701	.../015-702
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		PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5 400 V/6 kV/3 I _N 13 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	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
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		● ○ Coding A PVC halogen-free				
		1 m	891-8995/106-101	.../106-102	891-8995/116-101	.../116-102
		2 m	891-8995/106-201	.../106-202	891-8995/116-201	.../116-202
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Connecting cable, plug – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
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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. 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)				
		Mounting carrier, for 2- to 5-pole "flying leads" black 890-310 100 white 890-311 100				

	<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I_N 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*[®] 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*[®] 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 mm² / 16 A

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



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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

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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

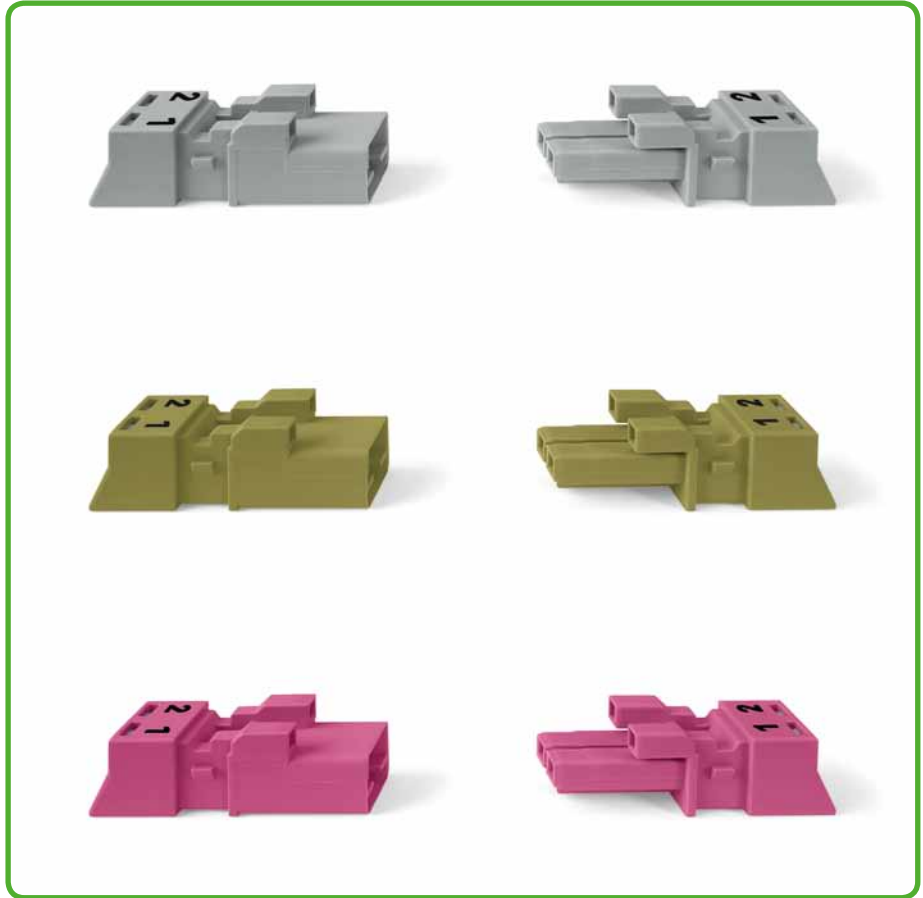


Light green, B-coded connector with "- +" marking; e.g., DC power supply (24V circuit).

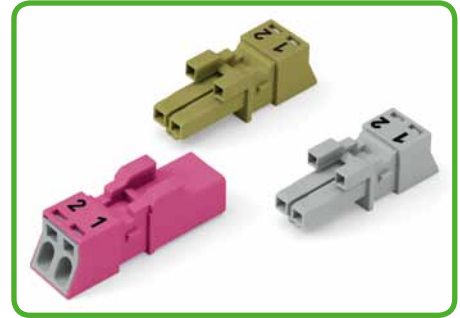
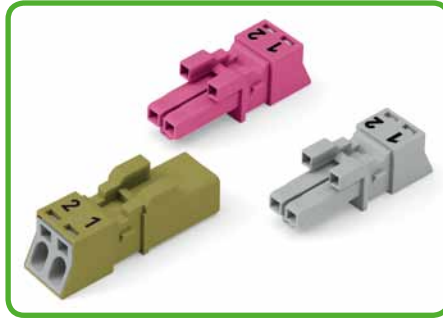
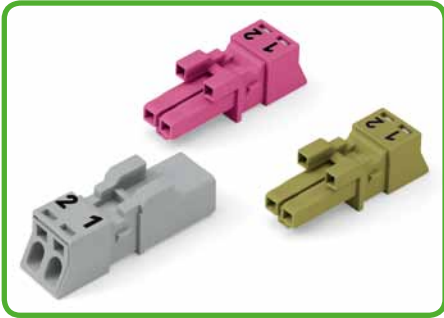
Pole marking



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

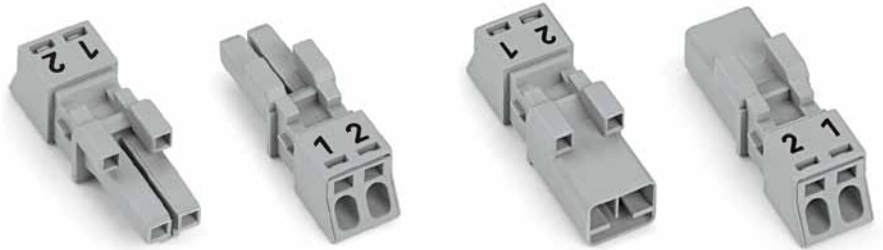
2

41

<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 16 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>AWG 22 – 16</p>	<p>0.25 – 1.5 mm² ① 250 V/4 kV/3 I_N 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>Strain relief housing,</p> <p> for 3.8 – 8.2 mm cable diameter</p> <p>black 890-502 50</p> <p>white 890-512 50</p>	<p>Strain relief housing,</p> <p> for 3.8 – 8.2 mm cable diameter</p> <p>black 890-502 50</p> <p>white 890-512 50</p>
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Accessories, 890 Series

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

Dimensions

① Conductor sizes: 0.25 – 1.5 mm² "s + f-st"
0.25 – 1 mm² "stranded"

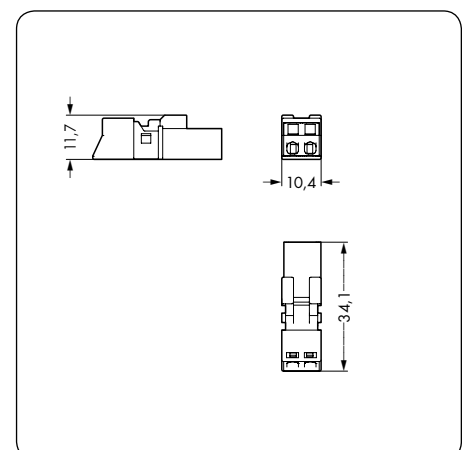
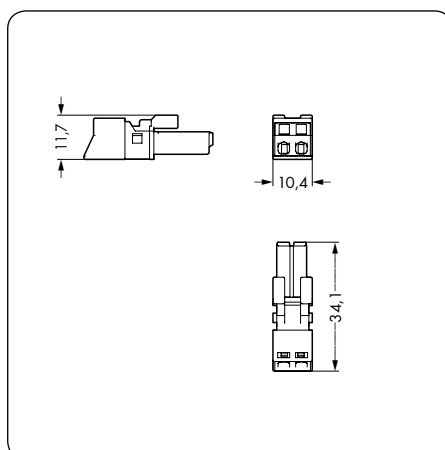
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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.

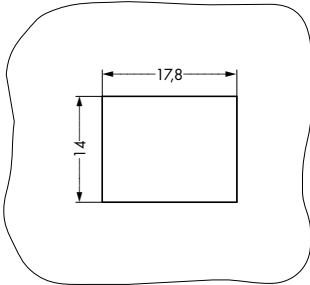


WINSTA® – Perfectly plugged!

WINSTA® MINI special Snap-In Sockets and Plugs, 2-Pole



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



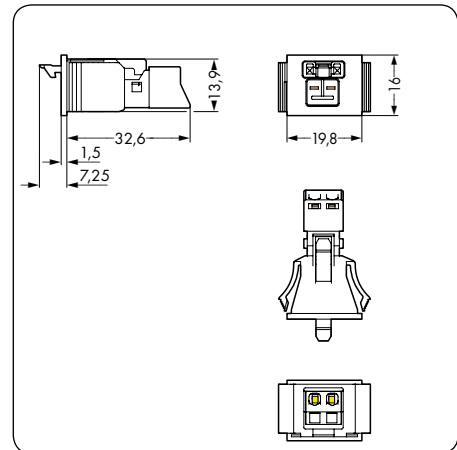
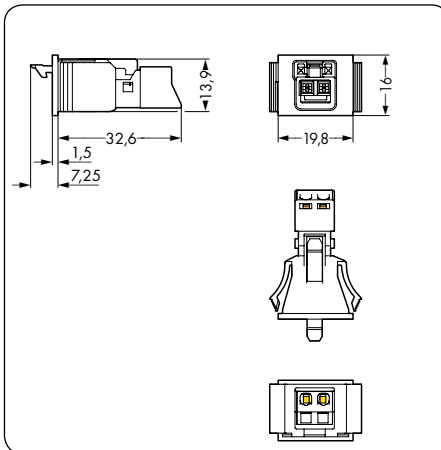
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, snap-in device connection, 2-pole, with CAGE CLAMP®S connection	Socket			Plug		
	● gray	890-742	50	● gray	890-752	50
	● gray	890-742/060-000*	50	● gray	890-752/060-000*	50
	● light green	890-762	50	● light green	890-772	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.		

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	100
	white	890-692	100	white	890-692	100

Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm² "s + f-st"
0.25 – 1 mm² "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.

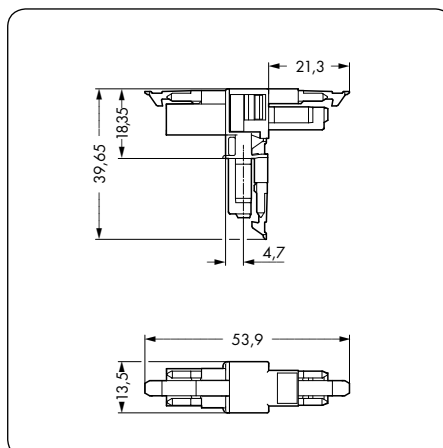


Distribution Connectors, 2-Pole

	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.		
Accessories, 890 Series			
	Locking lever, for "flying leads," tool operated 		
		black 890-111	100 (2x50)
		white 890-131	100 (2x50)
	Dimensions		



WINSTA® MINI special Cable Assemblies, 2 x 1 mm²

		<p>PVC Control line: 2 x 1, gray</p> <p>250 V/4 kV/3 I_N 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 black</p> <p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>891-8992/005-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/005-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/005-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/005-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/005-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/005-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/005-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/005-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/005-507</td></tr> </table>	●	1 m	891-8992/005-103	●	3 m	891-8992/005-303	●	5 m	891-8992/005-503	●	1 m	891-8992/005-105	●	3 m	891-8992/005-305	●	5 m	891-8992/005-505	●	1 m	891-8992/005-107	●	3 m	891-8992/005-307	●	5 m	891-8992/005-507
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<p>Connecting cable, socket – free end</p>		<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>891-8992/105-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/105-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/105-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/105-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/105-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/105-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/105-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/105-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/105-507</td></tr> </table>	●	1 m	891-8992/105-103	●	3 m	891-8992/105-303	●	5 m	891-8992/105-503	●	1 m	891-8992/105-105	●	3 m	891-8992/105-305	●	5 m	891-8992/105-505	●	1 m	891-8992/105-107	●	3 m	891-8992/105-307	●	5 m	891-8992/105-507
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<p>Connecting cable, plug – free end</p>		<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>891-8992/205-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/205-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/205-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/205-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/205-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/205-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/205-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/205-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/205-507</td></tr> </table>	●	1 m	891-8992/205-103	●	3 m	891-8992/205-303	●	5 m	891-8992/205-503	●	1 m	891-8992/205-105	●	3 m	891-8992/205-305	●	5 m	891-8992/205-505	●	1 m	891-8992/205-107	●	3 m	891-8992/205-307	●	5 m	891-8992/205-507
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●	5 m	891-8992/205-507																											
<p>Info</p>		<p>Accessories</p> <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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<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)																
●	gray	Coding B	(1 2)																										
●	light green	Coding B	(1 2)																										
●	pink	Coding B	(1 2)																										

Cable Assemblies, 2 x 1.5 mm²

	<p>PVC Control line: 2 x 1.5, gray</p> <p>250 V/4 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																											
Interconnecting cable, socket – plug	<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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Connecting cable, plug – free end	<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>891-8992/206-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/206-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/206-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/206-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/206-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/206-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8992/206-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8992/206-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8992/206-507</td></tr> </table>	●	1 m	891-8992/206-103	●	3 m	891-8992/206-303	●	5 m	891-8992/206-503	●	1 m	891-8992/206-105	●	3 m	891-8992/206-305	●	5 m	891-8992/206-505	●	1 m	891-8992/206-107	●	3 m	891-8992/206-307	●	5 m	891-8992/206-507
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●	5 m	891-8992/206-507																										

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	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 mm², 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 mm² 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 mm² ① 250 V/4 kV/3 I_N 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 mm² ① 250 V/4 kV/3 I_N 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).



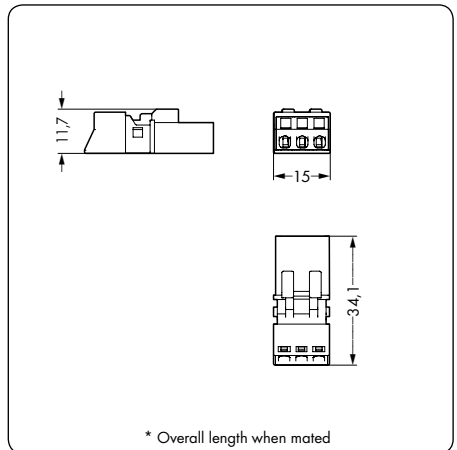
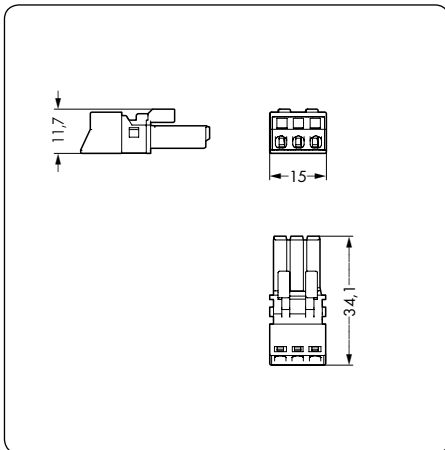
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	890-243	50	gray	890-253	50
	gray	890-243/060-000*	50	gray	890-253/060-000*	50
	gray	890-243/062-000*	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>

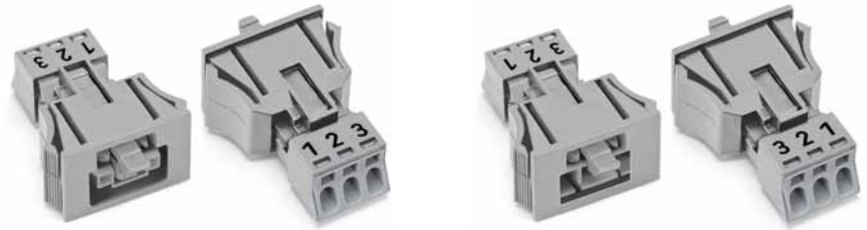
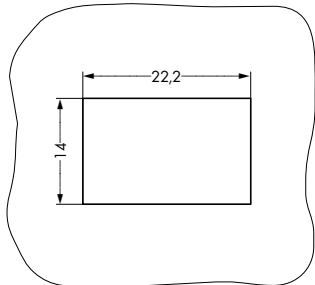
Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm² “s + f-st”
0.25 – 1 mm² “stranded”
 - ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.
 - ③ Full rated current can only be applied to a maximum of 2 poles!
For 3-pole load I_N = 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.

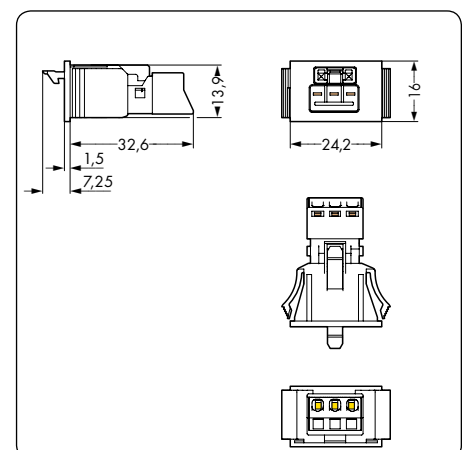
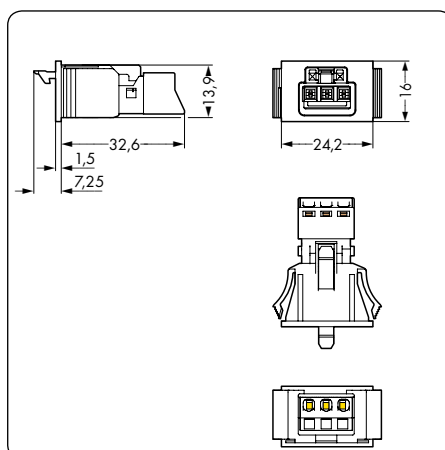


Snap-In Sockets and Plugs, 3-Pole

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm ² ① 250 V/4 kV/3 I _N 16 A 3	AWG 22 – 16	0.25 – 1.5 mm ² ① 250 V/4 kV/3 I _N 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  890-393 1			Operating tool, insulated 3-pole  890-393 1		
Accessories, 890 Series						
	Lockout cap, for cutout, 3-pole  black 890-643 100 white 890-693 100			Lockout cap, for cutout, 3-pole  black 890-643 100 white 890-693 100		
Dimensions						






250 V/4 kV/3
I_N 16 A ②

*Available
March 2013*

① Approvals



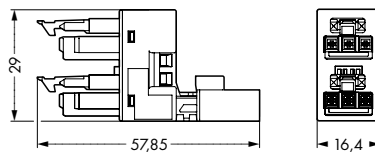
Description	Color	Item No.	Pack. Unit
h-distribution connectors, 3-pole	h-distribution connector, unidirectional, plug / socket - socket		
	● gray	890-1661	50
	● light green	890-1662	50
	● pink	890-1663	50
	for "flying leads," with 3rd locking lever		
	● gray	890-1761	50
	● light green	890-1762	50
	●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

- 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_N = 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.



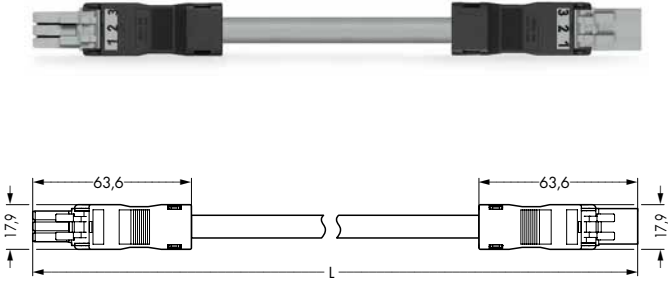
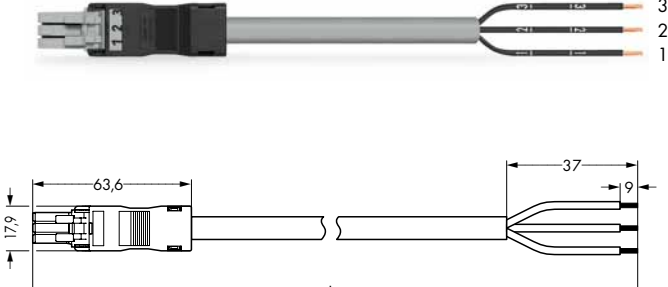
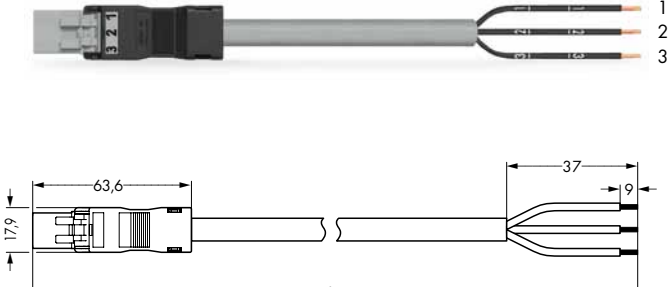








WINSTA® – Perfectly plugged!


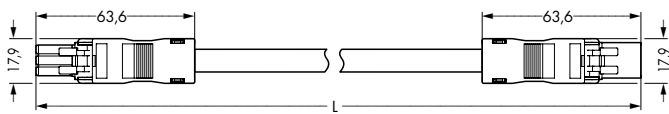

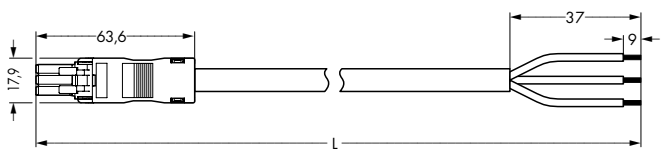

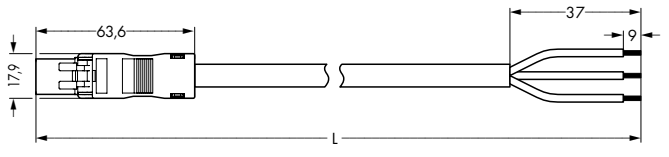
2 WINSTA® MINI special

Cable Assemblies, 3 x 1 mm²

50

	<p>PVC Control line: 3 x 1, gray</p> <p>250 V/4 kV/3 I_N 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>																																
	<p>Coding B</p> <p>PVC</p> <table border="1"> <tr><td>●</td><td>1 m</td><td>891-8993/005-103</td></tr> <tr><td>●</td><td>3 m</td><td>891-8993/005-303</td></tr> <tr><td>●</td><td>5 m</td><td>891-8993/005-503</td></tr> <tr><td>●</td><td>1 m</td><td>891-8993/005-105</td></tr> <tr><td>●</td><td>3 m</td><td>891-8993/005-305</td></tr> <tr><td>●</td><td>5 m</td><td>891-8993/005-505</td></tr> <tr><td>●</td><td>1 m</td><td>891-8993/005-107</td></tr> <tr><td>●</td><td>3 m</td><td>891-8993/005-307</td></tr> <tr><td>●</td><td>5 m</td><td>891-8993/005-507</td></tr> </table>	●	1 m	891-8993/005-103	●	3 m	891-8993/005-303	●	5 m	891-8993/005-503	●	1 m	891-8993/005-105	●	3 m	891-8993/005-305	●	5 m	891-8993/005-505	●	1 m	891-8993/005-107	●	3 m	891-8993/005-307	●	5 m	891-8993/005-507					
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<p>Connecting cable, plug – free end</p>	<p>Color Length Item No. black</p>																																
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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! For 3-pole load I_N = 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
●	gray	Coding B	(1 2 3)																														
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	white	890-131	100 (2x50)																														
	black	890-310	100																														
	white	890-311	100																														

Cable Assemblies, 3 x 1.5 mm²

		PVC	Control line: 3 x 1.5, gray	
		250 V/4 kV/3 I _N 16 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
Interconnecting cable, socket – plug		Color	Length	Item No. black
		Coding 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
Connecting cable, socket – free end		Color	Length	Item No. black
		Coding 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
Connecting cable, plug – free end		Color	Length	Item No. black
		Coding 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 mm², 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 mm² 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

52

<p>0.25 – 1.5 mm² ① 400 V/6 kV/3 I_N 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 mm² ① 400 V/6 kV/3 I_N 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).



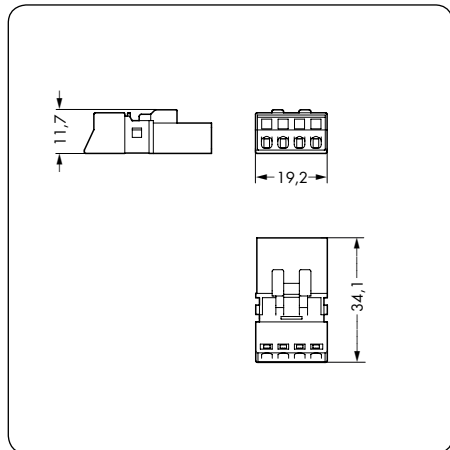
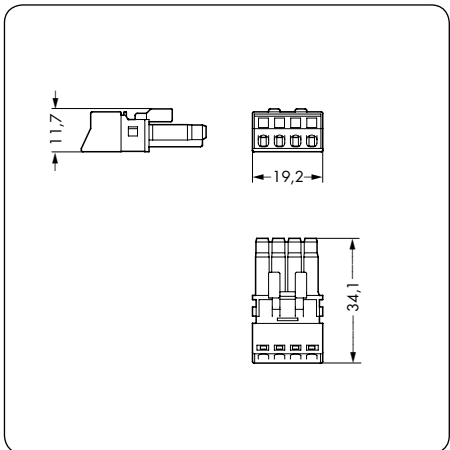
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	890-244	50	gray	890-254	50
	gray	890-244/060-000*	50	gray	890-254/060-000*	50
	gray	890-244/062-000*	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							
Strain relief housing, for 6.5 – 10.5 mm cable diameter			Strain relief housing, for 6.5 – 10.5 mm cable diameter				
	black	890-504	50		black	890-504	50
	white	890-514	50		white	890-514	50



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

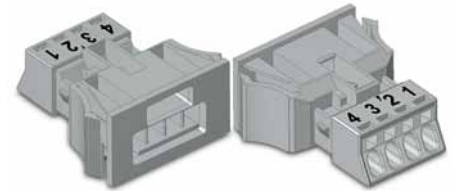
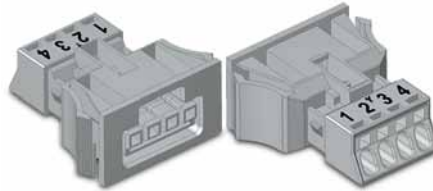
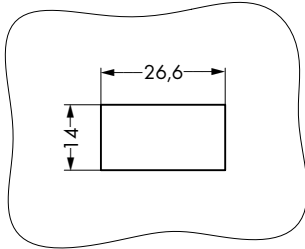
Info	Dimensions
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- ① Conductor sizes: 0.25 – 1.5 mm² “s + f-st”
0.25 – 1 mm² “stranded”
 - ② For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.
 - ③ Full rated current can only be applied to a maximum of 2 poles!
I_N = 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.



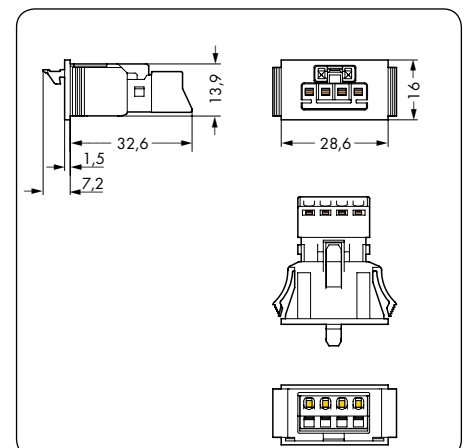
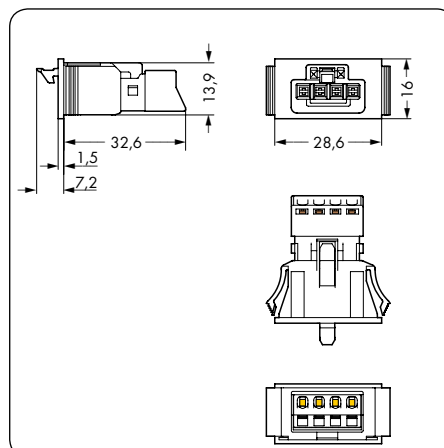
Snap-In Sockets and Plugs, 4-Pole

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	0.25 – 1.5 mm ² ① 400 V/6 kV/3 I _N 16 A ③	AWG 22 – 16	0.25 – 1.5 mm ² ① 400 V/6 kV/3 I _N 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.	

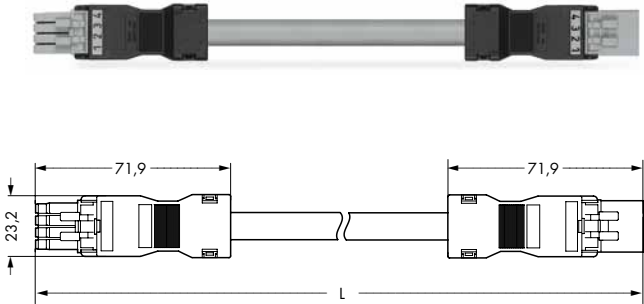
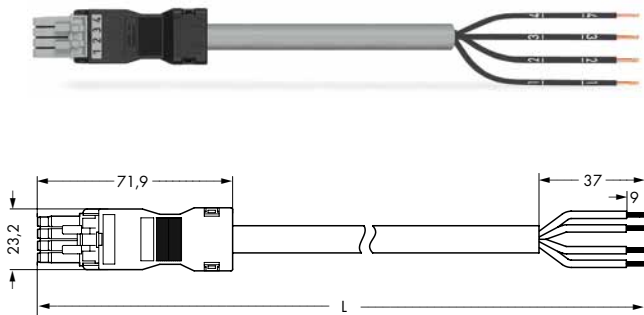
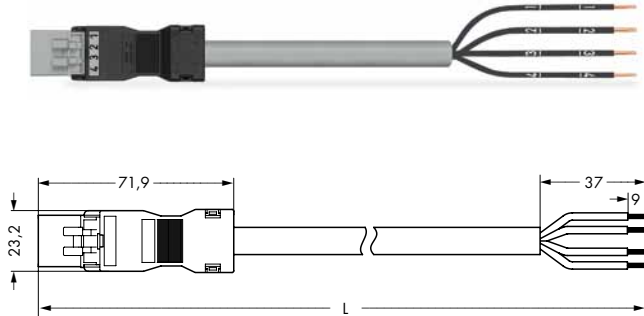






Dimensions



2 WINSTA® MINI special

Cable Assemblies, 4 x 1 mm²

54

	<p>PVC Control line: 4 x 1, gray</p> <p>400 V/6 kV/3 I_N 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 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! I_N = 10 A for 3- and 4-pole load! 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>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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Cable Assemblies, 4 x 1.5 mm²

	<p>PVC Control line: 4 x 1.5, gray</p> <p>400 V/6 kV/3 I_N 16 A ②</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																											
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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	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 mm², 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 mm² 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



linect

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

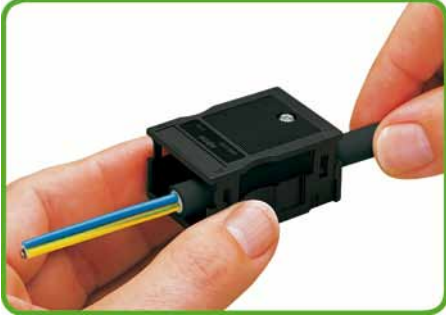
Distribution Box

138 - 139

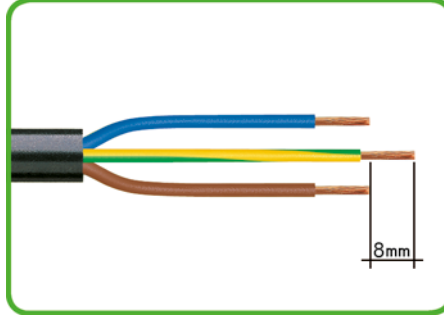
3 Handling WINSTA® MIDI, 770 Series

58

Preparation

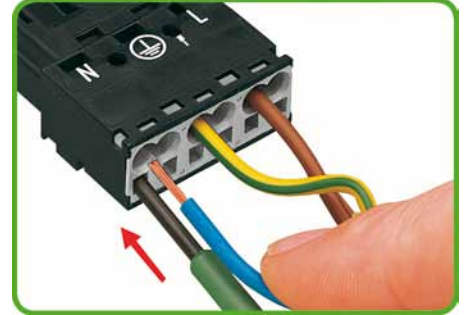


We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



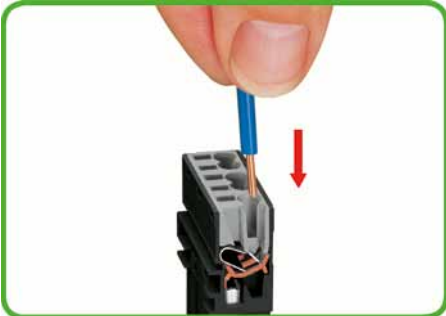
1. Strip length, outer insulation = x mm **1**
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

Conductor termination with CAGE CLAMP® S

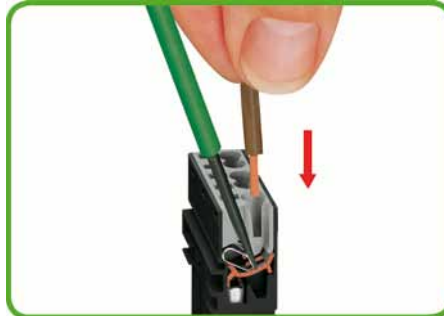


To terminate fine-stranded conductors, open clamping unit via 2.5mm screwdriver and insert stripped conductor until it hits backstop.

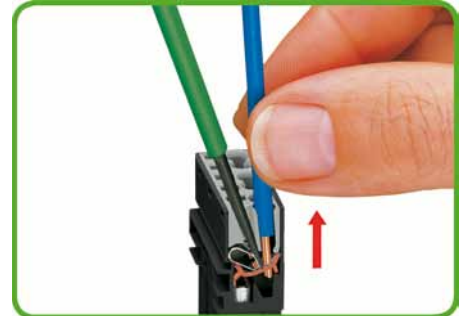
Conductor termination with CAGE CLAMP® S



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.

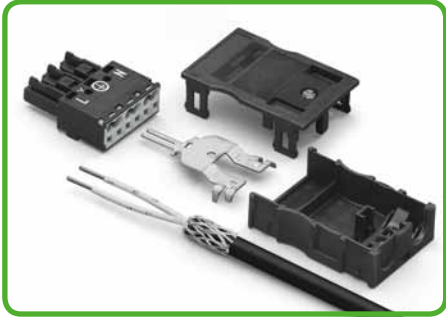
Marking



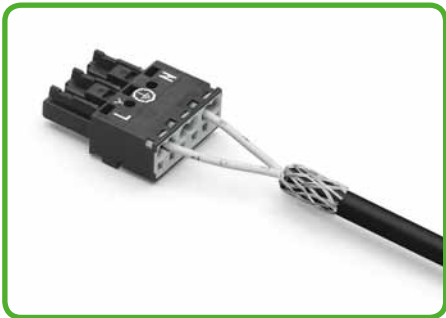
Marking strain relief housing via WSB quick marking system.

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.

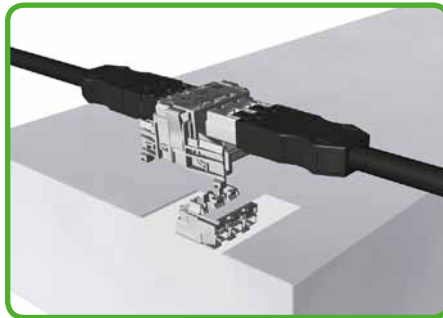


First insert the wired connector into the strain relief housing, then snap the cover and tighten the screw.

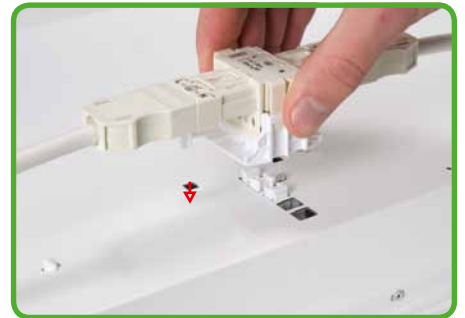


the light connection system

Three easy steps to error-free connections:

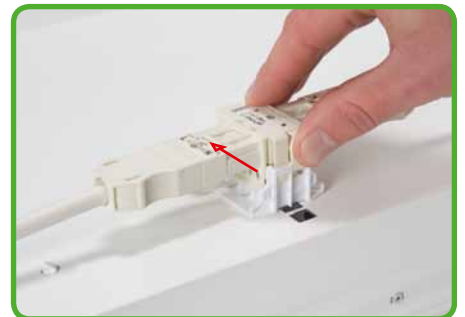
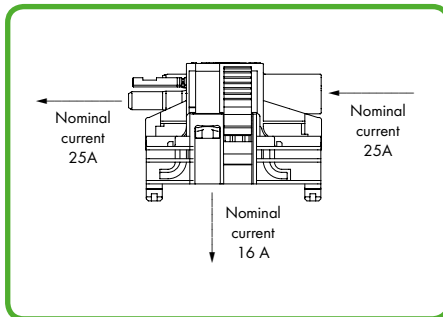


Connecting a T-connector to a 294 Series lighting connector.



Align the T-connector with the square cutouts.

Nominal current

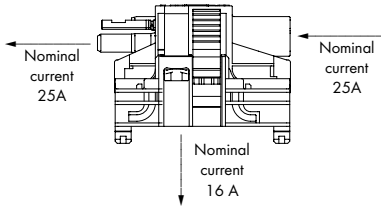


Move the T-connector towards the square cutouts until it is locked in position.

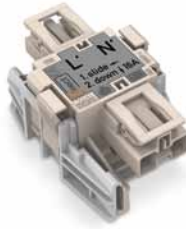


Push down until fully engaged - done!

	<p>250 V/4 kV/3 I_N 25 A (16 A) ①</p> <p>② Approvals</p>	<p>250 V/4 kV/3 I_N 25 A (16 A) ①</p> <p>② Approvals</p>
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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	

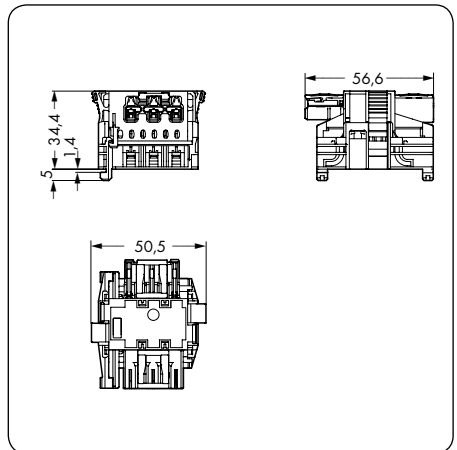
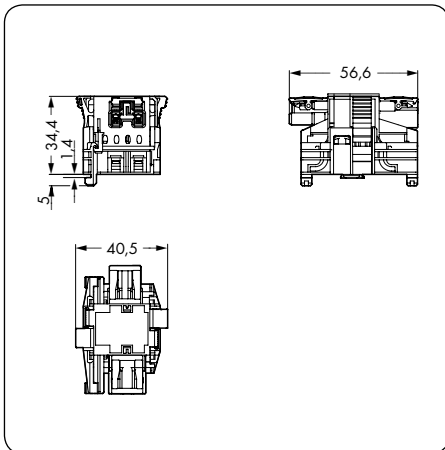
Item-Specific Accessories						
		Lockout cap, for socket, separable, 12-pole			Lockout cap, for socket, separable, 12-pole	
		black 770-201 100 white 770-221 100			black 770-201 100 white 770-221 100	
		Lockout cap, for plug, separable, 5-pole			Lockout cap, for plug, separable, 5-pole	
		yellow 770-360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

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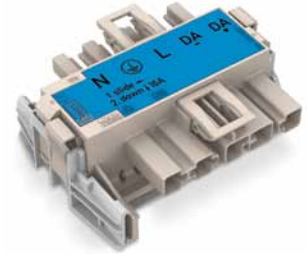
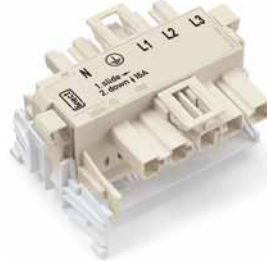
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

- 2-pole
 - dark gray Coding L (L' N')
- 3-pole
 - 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_N 25 A (16 A) ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I_N 25 A (16 A) ①</p> <p>② Approvals</p> <p style="text-align: center;"><i>Available March 2013</i></p>	<p>400 V/6 kV/3 I_N 25 A (16 A) ①</p> <p>② Approvals</p>
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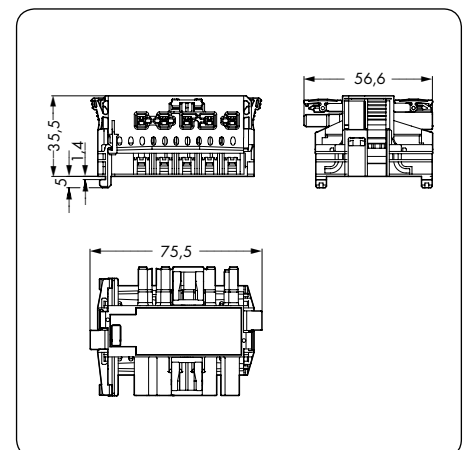
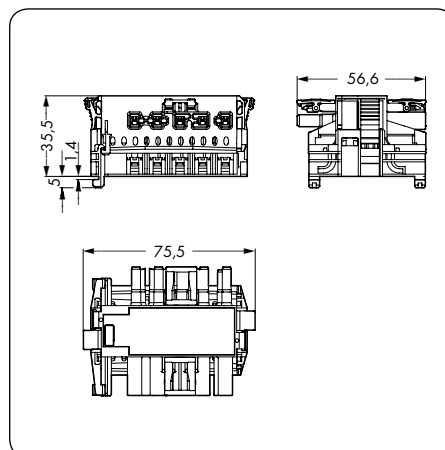
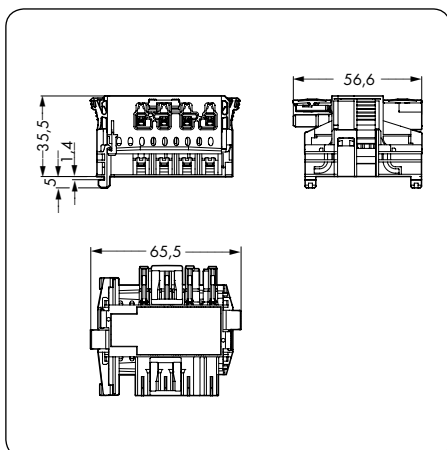


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connector, 4-pole, socket - plug, white housing, white cover			Linect® T-connector, 5-pole, socket - plug, white housing			Linect® T-connector, 5-pole, socket - plug, white housing		
○ white	770-6224	25	○ white	770-6225	25	● blue	770-7105	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 770-7505 20 Suitable for 294-8025 and 294-8125 lighting connectors		

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



Dimensions







3 WINSTA® MIDI

Sockets and Plugs, 2-Pole

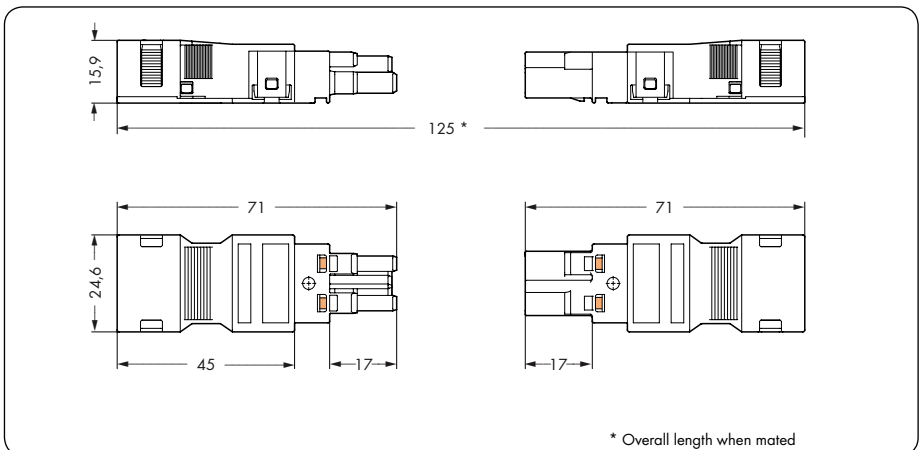
62



<p>2 x 0.5 – 4 mm² ① 2 x AWG 20 – 12 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x 0.5 – 4 mm² ① 2 x AWG 20 – 12 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
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					

- ① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "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 ² ① 250 V/4 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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Note:

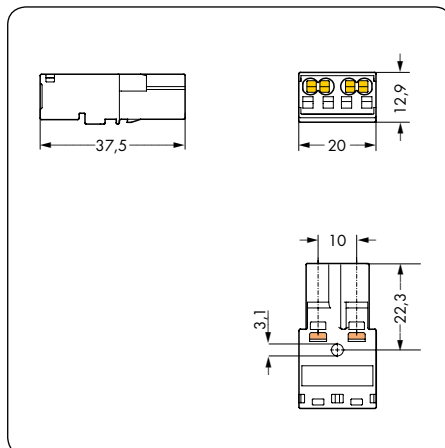
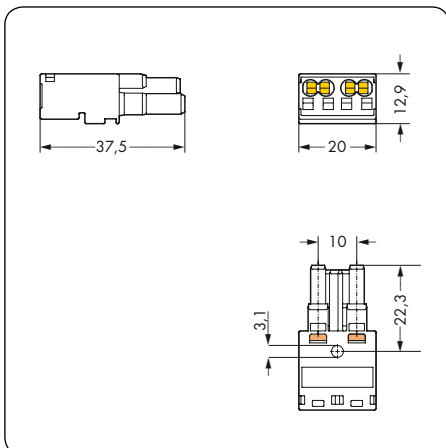
All connectors for fixed installations (snap-in versions for lighting fixtures, devices or all types of PCBs and distribution cabinets) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for “flying leads” (plug/socket).

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket without strain relief housing			Plug without strain relief housing		
● 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

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			

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)

Dimensions



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



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





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

Snap-on type strain relief housings for: - 2-pole sockets - 2-pole plugs 1 Approvals	Snap-on type strain relief housings for: - 2-pole sockets - 2-pole plugs 1 Approvals
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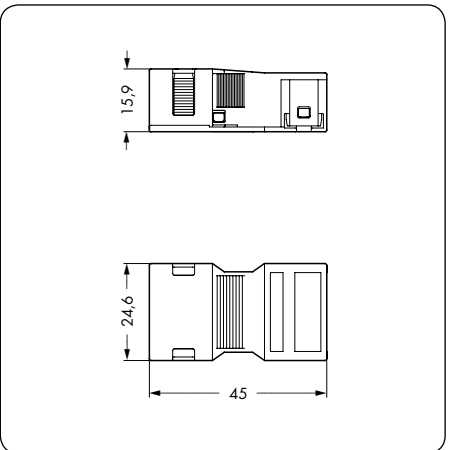
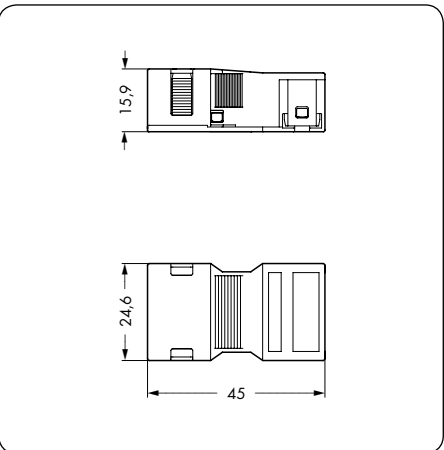


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 1 cable, 5 - 9 mm diameter 2			Strain relief housing, for 1 cable, 7 - 10.5 mm diameter 2		
	black	770-502/042-000	50	black	770-502/041-000	50
	white	770-512/042-000	50	white	770-512/041-000	50

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

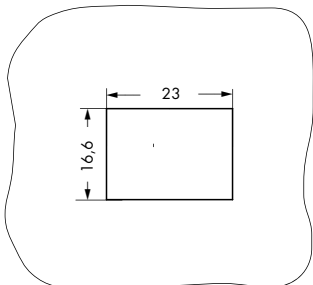
Info	Dimensions
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- 1** For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
 - 2** For H05VV and NYM cables
For other cables, please contact factory.
- For coding information, see pages 224 to 226.
Fire load data available upon request.



Snap-In Frames, 2-Poles

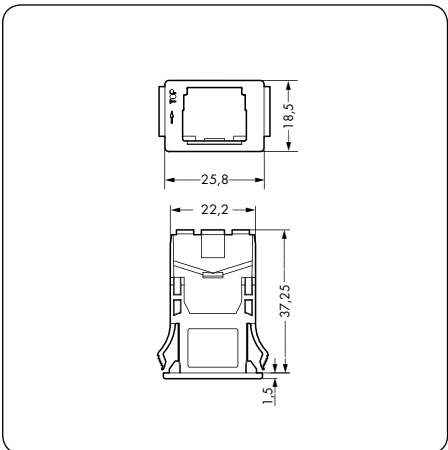
<p>Cutout dimensions</p> <p>Plate thickness: 1 – 3 mm Cutout tolerance: + 0.1 mm</p>	<p>Snap-in frames:</p> <ul style="list-style-type: none"> – for 2-pole sockets and plugs (see page 63) <p>Plate thickness: 1 – 3 mm</p> <p>📌 Approvals</p>	
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Description	Color	Item No.	Pack. Unit
Snap-in frames	Snap-in frame, 2-pole		
	black	770-317	100
	white	770-337	100
Item-Specific Accessories			
	Locking lever, oversized, tool operated		
		gray	770-140 100 (4x25)
Dimensions			

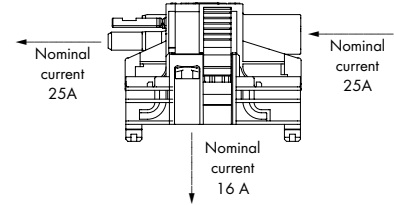
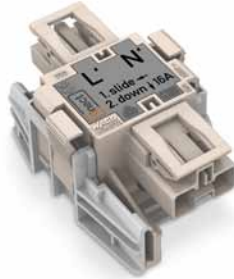


Insert the socket or plug into the frame (observe the "TOP" marking on the frame!). Snap the assembled unit into the cutout (example shows a 3-pole connector).



250 V/4 kV/3
 I_N 25 A (16 A) ②

① Approvals



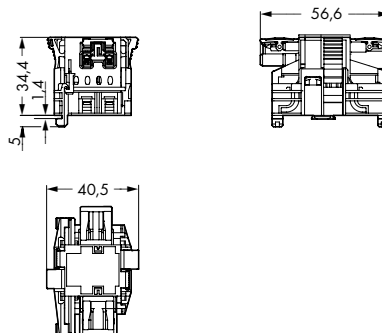
② Nominal current

Description	Color	Item No.	Pack. Unit
Linect® T-connector, 2-pole, socket - plug, white housing, dark gray cover	● dark gray	770-7502	25
	Suitable for 294-8022 lighting connector		
	Item-Specific Accessories		
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
	Info		
Dimensions			

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.

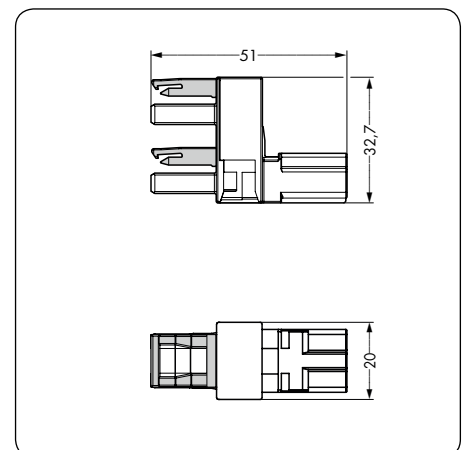
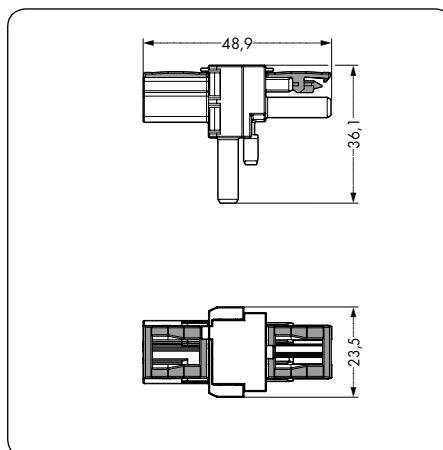
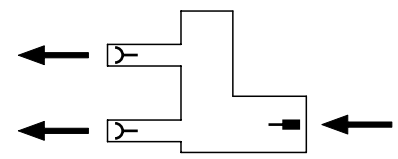
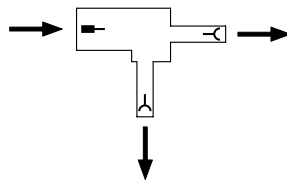



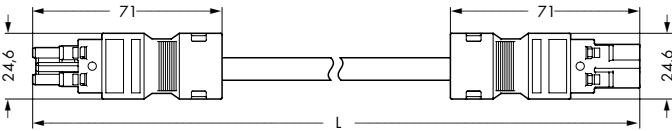

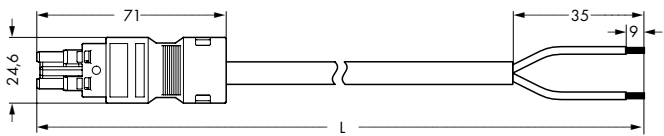

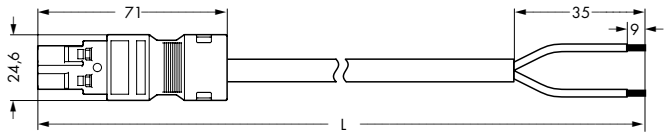





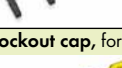

T-Distribution Connectors, 2-Pole

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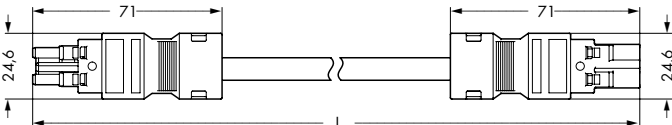

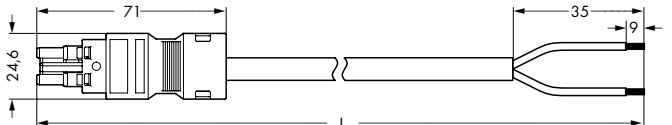

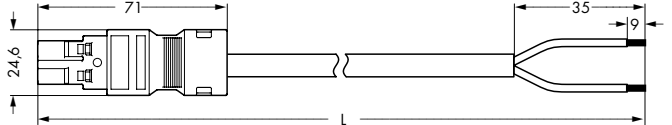




Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connectors, 2-pole	T-distribution connector, 1 x plug / 2 x socket			h-distribution connector, unidirectional, plug / socket - socket		
	● black	770-1606	50	● black	770-1634	50
	○ white	770-1656	50	○ white	770-1684	50
	for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
	● black	770-1615	50	● black	770-1636	50
	○ white	770-1665	50	○ white	770-1686	50
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	
Dimensions						



		PVC H05VV-F 2x1 halogen-free H05Z1 Z1-F 2x1 250 V/4 kV/3 I _N 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 mm²

		<p>PVC H05VV-F 2x1.5 halogen-free H05Z1Z1-F 2x1.5</p> <p>250 V/4 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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Info		Accessories				
<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				
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		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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Info	Accessories
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● 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.

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Sockets and Plugs, 3-Pole

<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>
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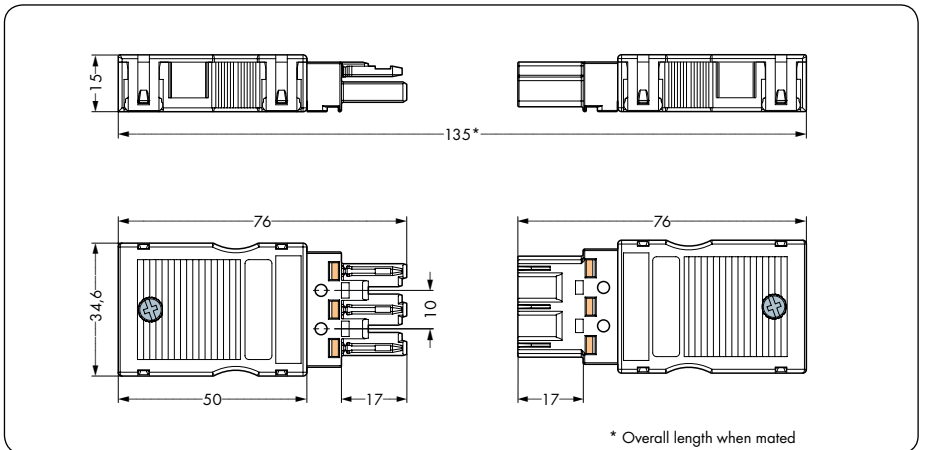
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 3-pole, with CAGE CLAMP® S connection	Socket with strain relief housing, for 2 cables, 8 – 11.5 mm diameter ③			Plug with strain relief housing, for 2 cables, 8 – 11.5 mm diameter ③		
	● black	770-103	25	● black	770-113	25
	○ white	770-123	25	○ white	770-133	25

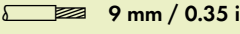
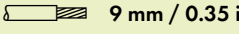
Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
		black 770-201	100		yellow 770-360	100
		white 770-221	100			
				Coding pin, for plug (A and B coding)		
					gray 770-401	100

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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- ① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"
 - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
 - ③ 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 ² ① 250 V/4 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 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
Socket without strain relief housing			Plug without strain relief housing		
● 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!

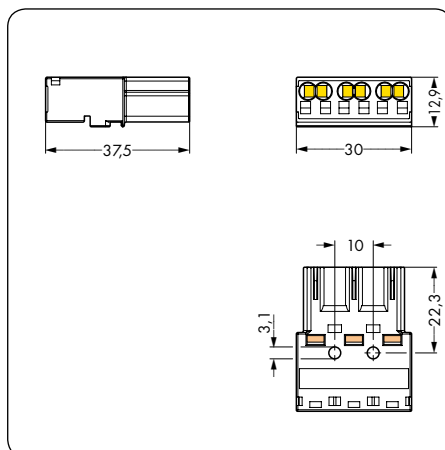
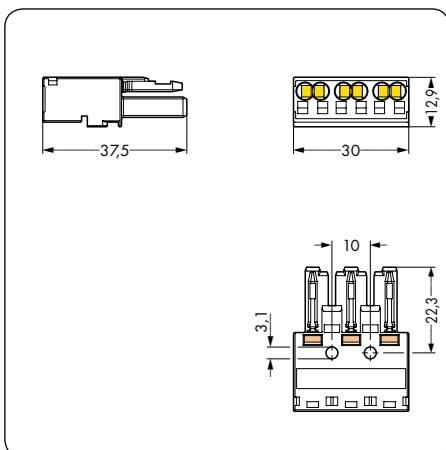
Item-Specific Accessories					
Lockout cap, for socket, separable, 12-pole			Lockout cap, for plug, separable, 5-pole		
	black 770-201	100		yellow 770-360	100
	white 770-221	100			
Coding pin, for plug (A and B coding)					
		gray 770-401		100	



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

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			

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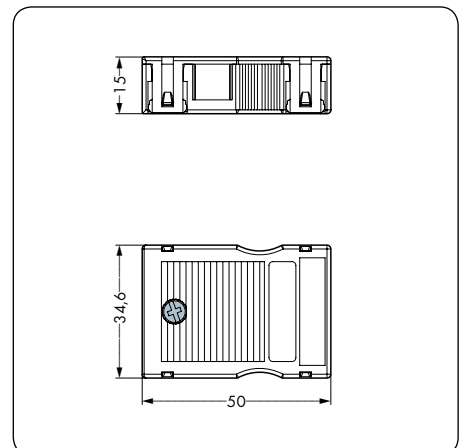
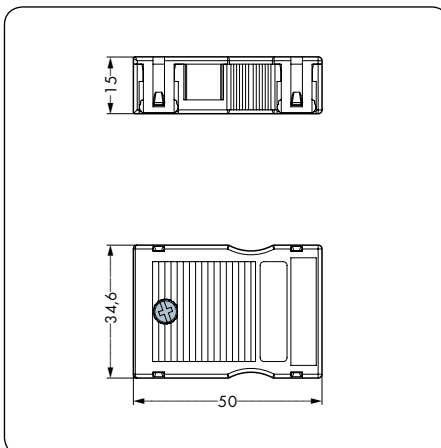
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings, 3-pole	Strain relief housing, for 2 cables, 4.5 - 8 mm diameter 2			Strain relief housing, for 2 cables, 8 - 11.5 mm diameter 2		
	black	770-503/023-000	50	black	770-503	50
	white	770-513/023-000	50	white	770-513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

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



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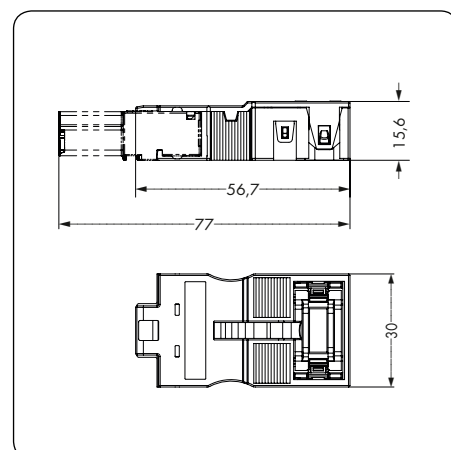
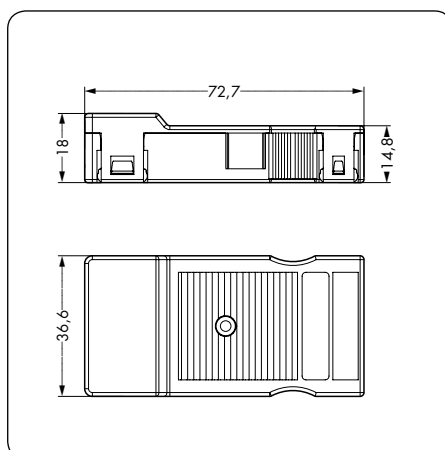
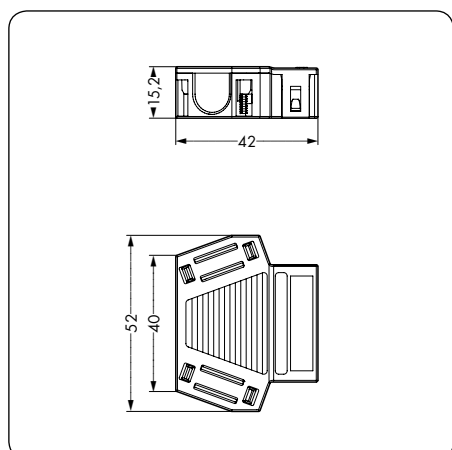


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housing, angled for 2 cables, 8 - 11.5 mm diameter 2			Strain relief housing for 4 mm² conductors, for 1 cable, 9 - 13 mm diameter 2 Strip length, outer insulation: 71 mm			Strain relief housing, for quick assembly, for 1 cable, 7 - 11.5 mm diameter 2		
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

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

Dimensions

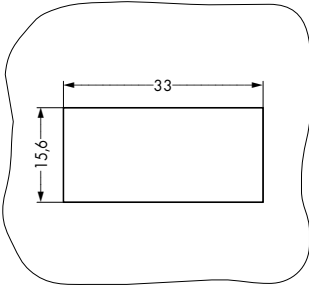


3 WINSTA® MIDI



Snap-In Sockets, 3-Pole



78

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 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, 3-pole, with CAGE CLAMP® S connection, snap-in frame, 3-pole	Socket			Socket with protruding interface		
	● 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						
	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, 3-pole			Lockout cap, for cutout, 3-pole		
		black 770-643 100 white 770-693 100			black 770-643 100 white 770-693 100	

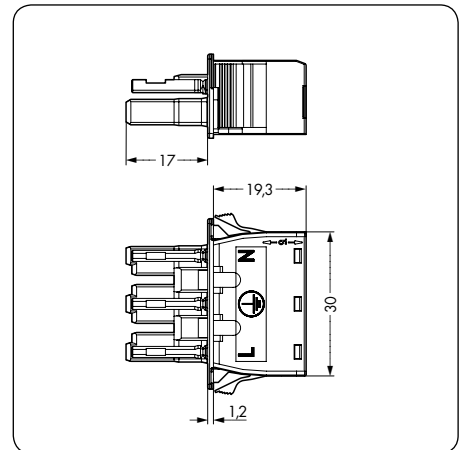
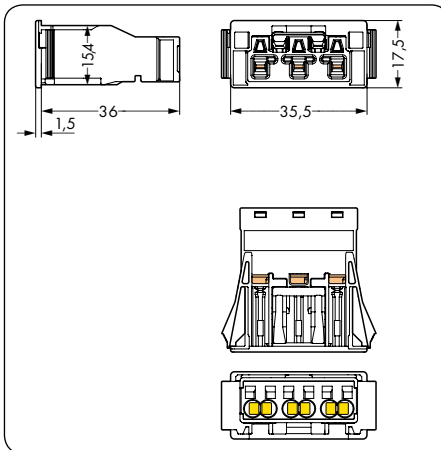
Info	Dimensions
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① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"

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

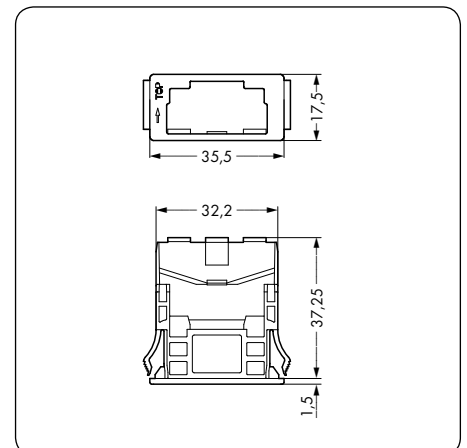
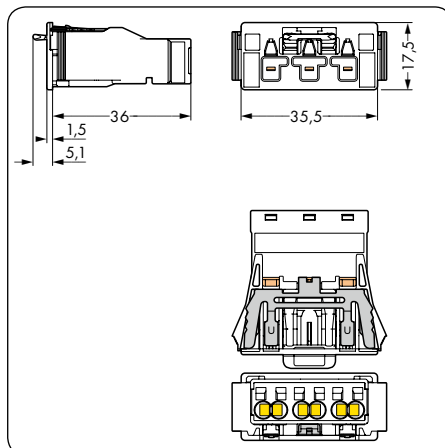
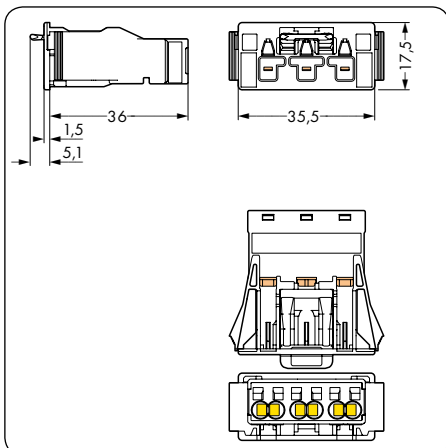
<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p>9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>Snap-in frames: – for 3-pole sockets and plugs (see page 75) Plate thickness: 1 – 3 mm</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Plug			Plug with direct ground contact			Snap-in frame, 3-pole		
● 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								
Lockout cap, for plug, separable, 5-pole yellow 770-360 100			Lockout cap, for plug, separable, 5-pole yellow 770-360 100			Locking lever, oversized, tool operated gray 770-140 100 (4x25)		
Coding pin, for plug (A and B coding) gray 770-401 100			Coding pin, for plug (A and B coding) 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			Lockout cap, for cutout, 3-pole black 770-643 100 white 770-693 100					

Dimensions



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

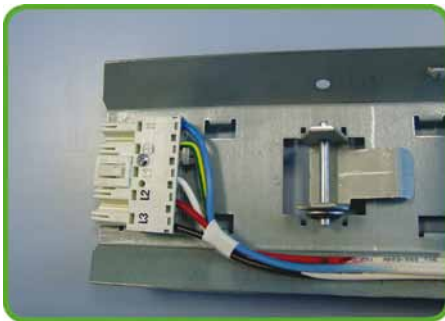


Description	Color	Item No.	Pack. Unit
Plug with ground contact, device connector	Plug, with ground contact, 3-pole, without strain relief housing; e.g., for assembly on luminaire casings		
	● black	770-213/002-000	25
	○ white	770-233/002-000	25
Please contact factory for delivery time and other colors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



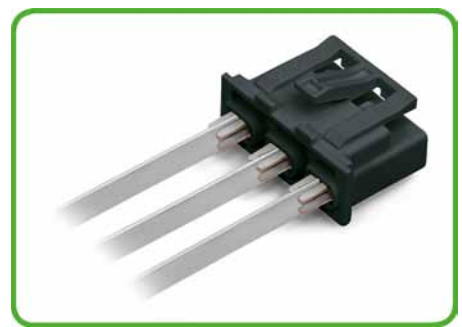
Plug with ground contact mounted on luminaire (example shows 5-pole plug).

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
Socket module ②			Plug module with locking lever ②		
● black	770-408	100	● black	770-418	100
○ white	770-428	100	○ white	770-438	100

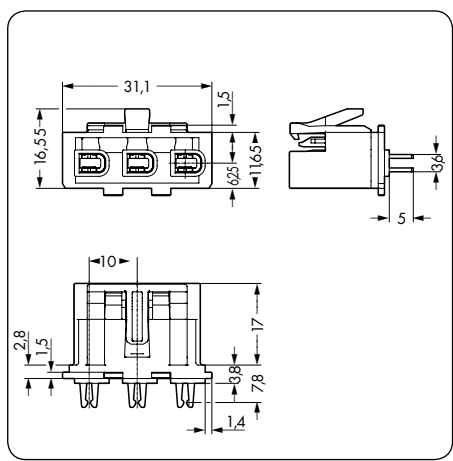
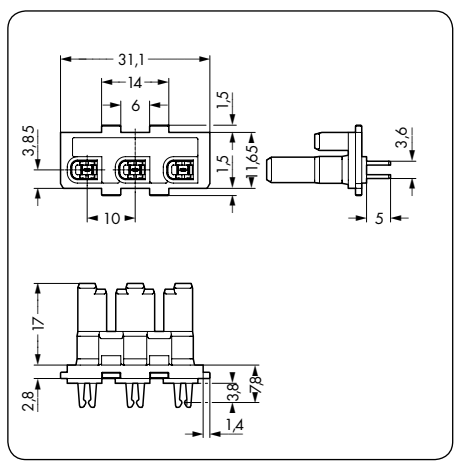


Device connectors can be cost-effectively installed in appropriate guide slots of a housing. Internal electrical connection is performed by contacting the 0.8 mm thick current bars. ②

Item-Specific Accessories		
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)	

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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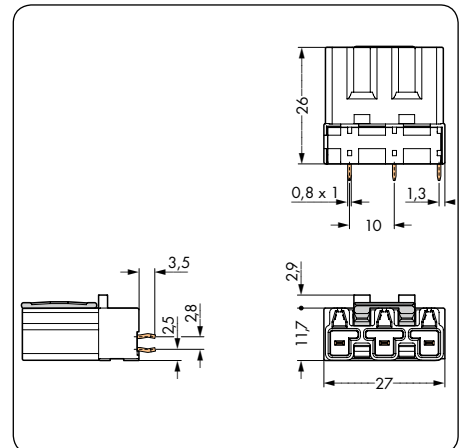
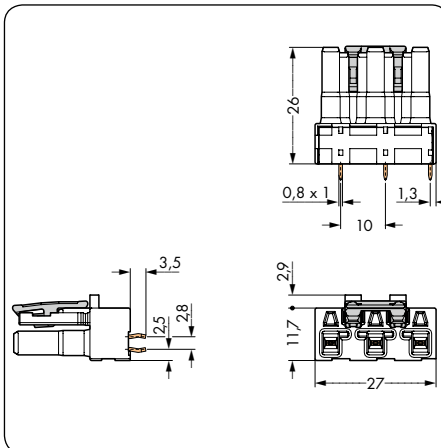


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-803	100	● black	770-813	100
	○ white	770-823	100	○ white	770-833	100
Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout 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					

- 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

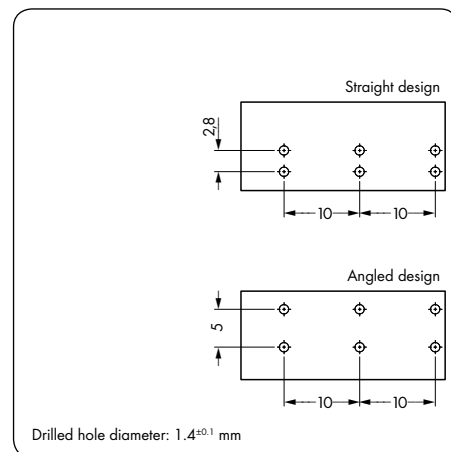
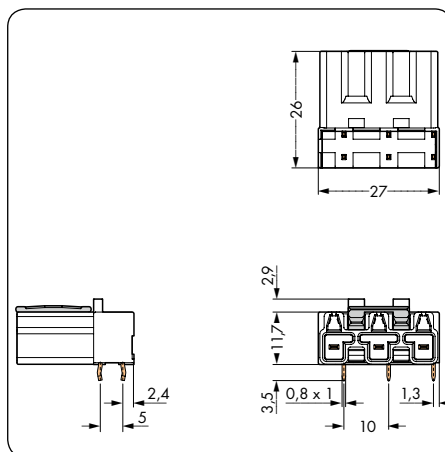
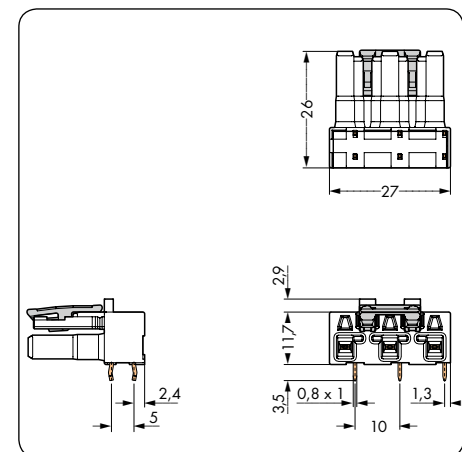
Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
● 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					
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)

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

250 V/4 kV/3 I _N 25 A ② Approvals	250 V/4 kV/3 I _N 25 A ② Approvals	250 V/4 kV/3 I _N 25 A ② Approvals
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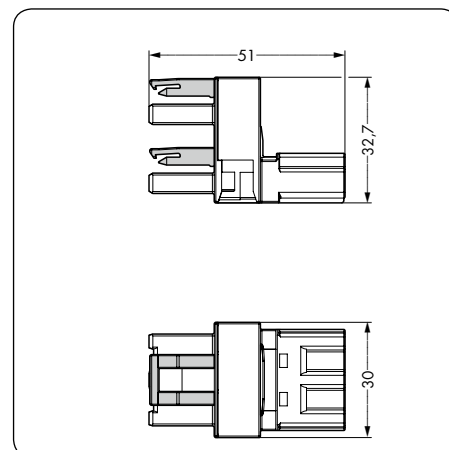
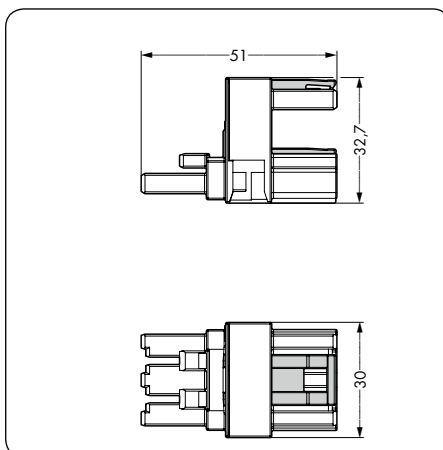
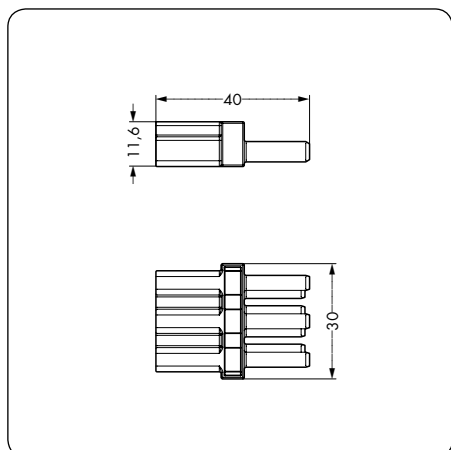
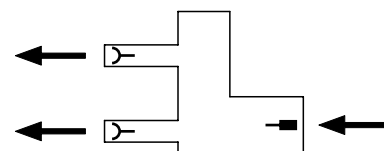
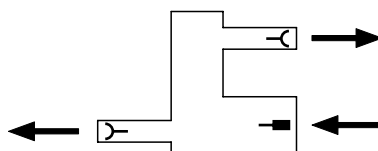
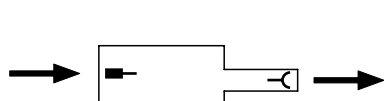


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Intermediate coupler, 1 x plug / 1 x socket			h-distribution connector, bi-directional, plug - socket / socket			h-distribution connector, unidirectional, plug / socket - socket		
● black	770-603	100	● black	770-633	50	● black	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

Lockout cap, for socket, separable, 12-pole  black 770-201 100 white 770-221 100	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
Lockout cap, for plug, separable, 5-pole  yellow 770-360 100	Fixing pin, for mounting plates  ③ black 890-601 250 ④ black 770-601 250	Fixing pin, for mounting plates  ③ black 890-601 250 ④ 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

Dimensions

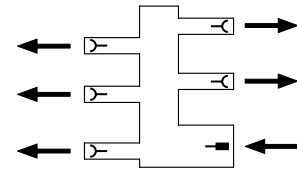
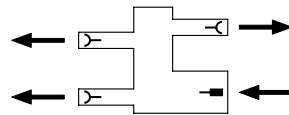


	250 V/4 kV/3 I_N 25 A ① Approvals	250 V/4 kV/3 I_N 25 A ① Approvals
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution connectors, pluggable		Distribution connector, 3-way, 1 x plug / 3 x socket			Distribution connector, 5-way, 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 			Mounting plate, for distribution connectors 			
		black	770-623	25	black	770-623	25
		white	770-673	25	white	770-673	25
	Fixing pin, for mounting plates 			Fixing pin, for mounting plates 			
		② black	890-601	250	② black	890-601	250
		③ black	770-601	250	③ black	770-601	250
	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



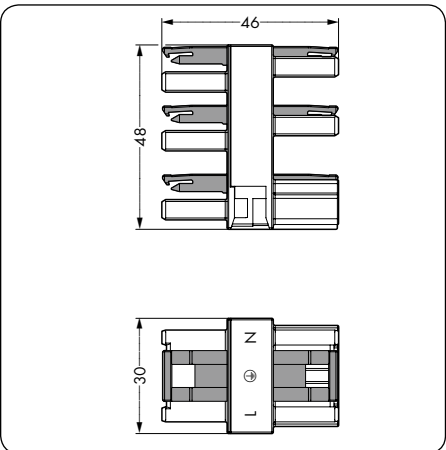
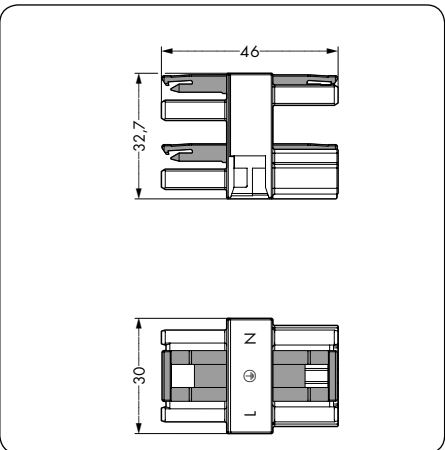
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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.

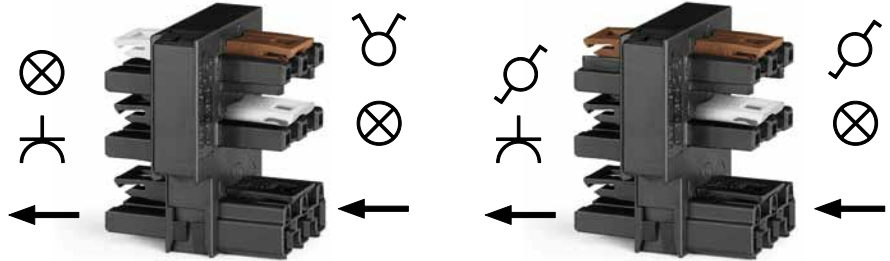












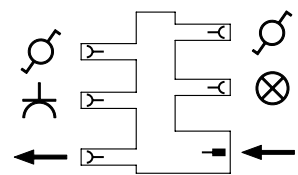
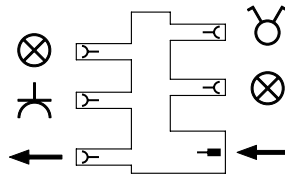
WINSTA® – Perfectly plugged!

Distribution Connectors, 3-Pole

	<p>250 V/4 kV/3 I_N 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 I_N 25 A</p> <p>① Approvals</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution connectors, pluggable	Distribution connector for single-pole switch and series circuits, 1 x plug, 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, LL ④ black/white		
	2 x socket, coding A (lighting fixtures), LL ④ white/black			2 x socket, coding A (lighting fixtures), LL ④ white/black		
	1 x socket, coding S (switch), LL ④ brown			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	
Item-Specific Accessories						
Mounting plate, for distribution connectors			Mounting plate, for distribution connectors			
						
black 770-623 25			black 770-623 25			
white 770-673 25			white 770-673 25			
Fixing pin, for mounting plates			Fixing pin, for mounting plates			
						
② black 890-601 250			② black 890-601 250			
③ black 770-601 250			③ black 770-601 250			
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			



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

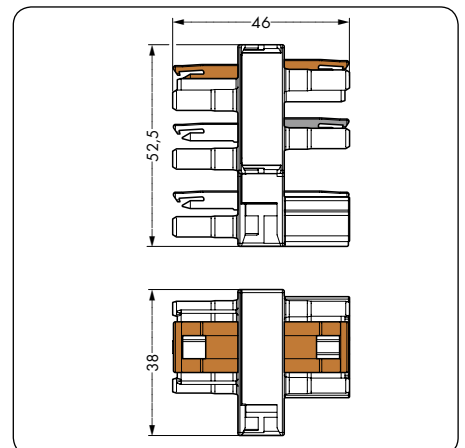
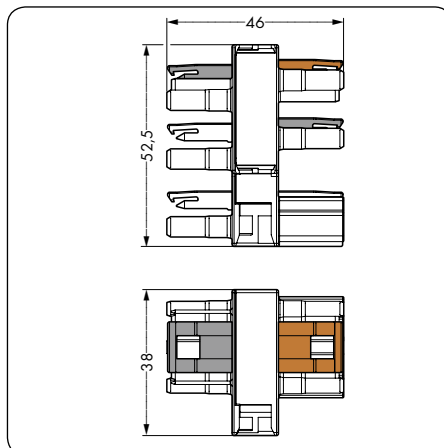
② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness

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

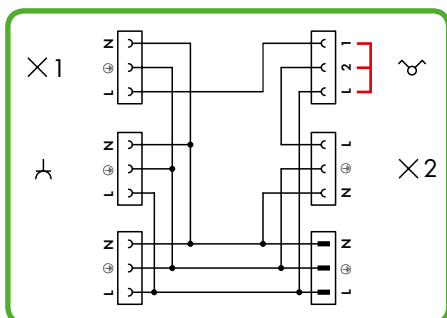
<p>250 V/4 kV/3 I_N 25 A Note: Before finally connecting the switches, the shorting plugs may be used to switch on or off.</p>	<p>250 V/4 kV/3 I_N 25 A Note: If this shorting plug is connected to the 770-637 distribution connector as shown below, a motion sensor can be connected instead of the switch.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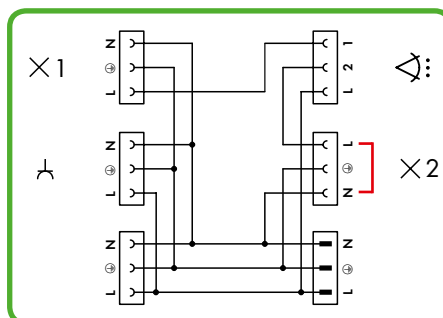
Marking	Item No.	Pack. Unit	Marking	Item No.	Pack. Unit
Shorting plug, brown plug with assembled strain relief housing			Shorting plug, coding A, black plug with assembled strain relief housing and bridge		
	770-1373/146-000	50		770-113/147-000	50
	770-1373/147-000	50			
	770-1373/148-000	50			
	770-1373/149-000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

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

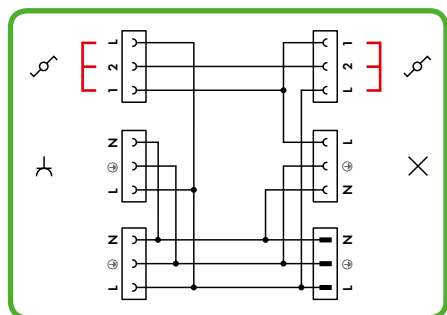
Application Notes



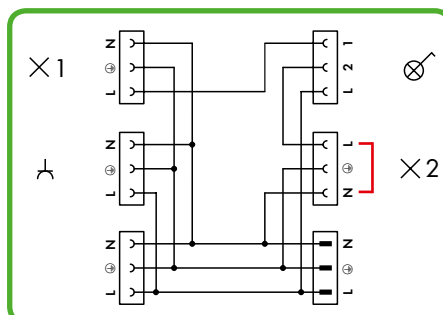
Internal circuit of 770-637 distribution connector with possible insertion position of 770-1373/14x-000 shorting plug.



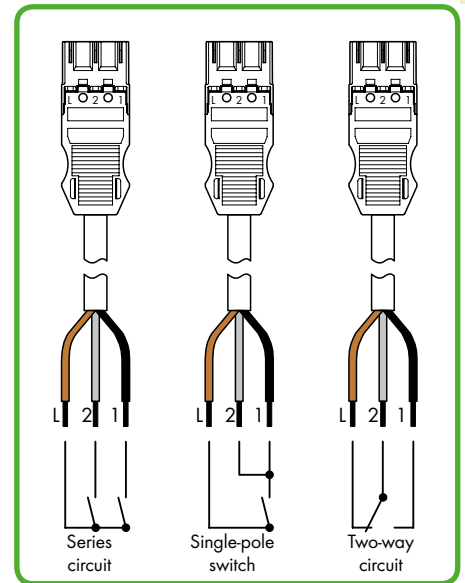
Internal circuit of 770-637 distribution connector with insertion position of 770-113/147-000 shorting plug for connecting a motion sensor.



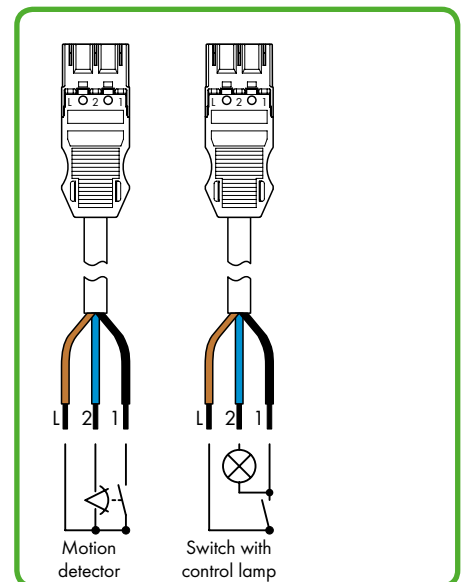
Internal circuit of 770-638 distribution connector with possible insertion positions of 770-1373/14x-000 shorting plug.



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




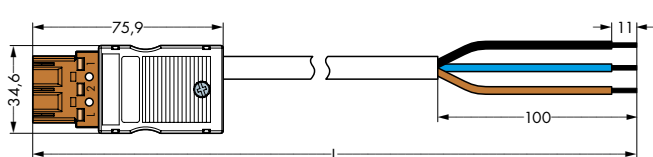
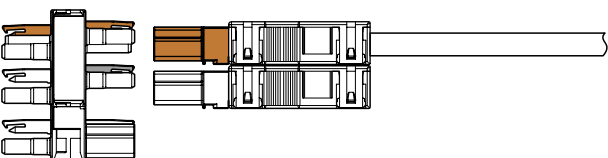
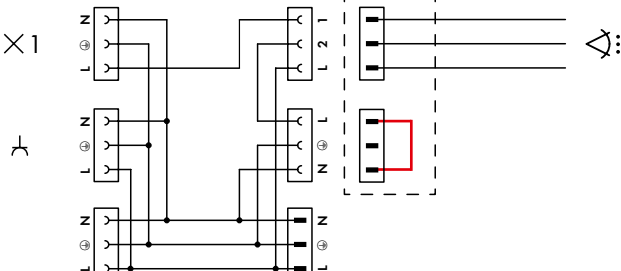
Cable assembly with coding S for connection to 770-637 and 770-638 distribution connectors.



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

	PVC H05VV-F 3x1.5 halogen-free H05Z1Z1-F 3x1.5 250 V/4 kV/3 I _N 16 A Conductor ends, bonded: 11 mm ① Approvals
--	---

Connecting cable, socket – plug

Length Item No.	black
● Coding S	
● Coding A	
PVC	
3 m	771-5001/106-000
4 m	771-5001/107-000
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.	





Info

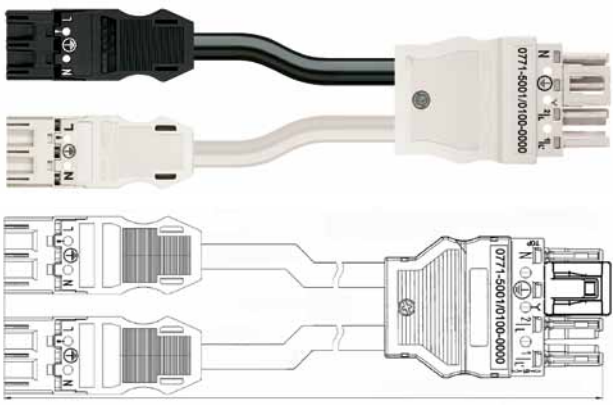
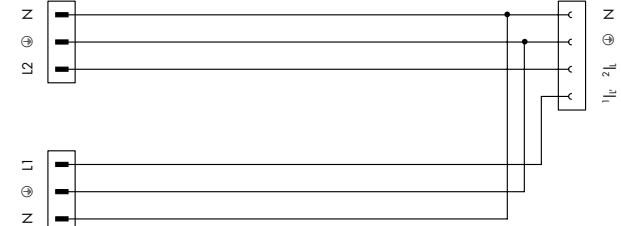
① For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243. Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications. For other cables, please contact factory.


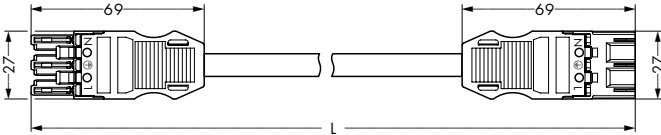

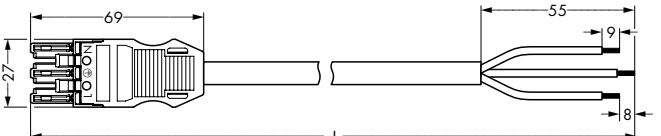

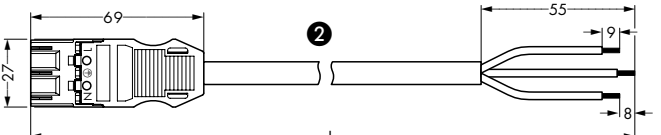
● black	Coding A	(L ⊕ N)
● brown	Coding S	(L 2 1)

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

Accessories

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

	<p>PVC H05VV-F 3x1.5 I_N 16 A</p> <p>250 V/4 kV/3</p> <p>① Approvals</p>																		
<p>Y-cable, 1 x 4-pole, 2 x 3-pole</p>	<p>Length Item No. black</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>● ○ 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>Accessories</p> <p>Locking lever, for "flying leads," 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>Locking lever, for "flying leads," 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>Lockout cap, for plug, separable, 5-pole</p> <table border="1"> <tr> <td>yellow</td> <td>770-360</td> <td>100</td> </tr> </table> <p>Coding pin, for plug (A and B coding)</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
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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 _N 16 A												
		Conductor ends, bonded: 9 mm/16 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	771-9993/006-101	.../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								
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	771-9993/106-101	.../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								
Connecting cable, plug - free end		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									
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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>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>Locking lever, for "flying leads,"</p> <p>manually operated</p> <table border="1"> <tr> <td>black</td> <td>770-101</td> <td>100</td> <td>(4x25)</td> </tr> <tr> <td>white</td> <td>770-121</td> <td>100</td> <td>(4x25)</td> </tr> </table>					black	770-101	100	(4x25)	white	770-121	100	(4x25)
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		black	770-201	100										
		white	770-221	100										
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yellow	770-360	100												

	<p>PVC H05VV-F 3G1.5 halogen-free H05Z1Z1-F 3G1.5</p> <p>250 V/4 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</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. For other cables, please contact factory.</p> <p>② PVC H05VV-F 3 x 1.5 halogen-free H05Z1Z1-F 3 x 1.5</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>		<p>Locking lever, for "flying leads," 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>Locking lever, for "flying leads," 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>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> <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>	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
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Cable Assemblies 3 x 1.5 mm² / 3 x 1 mm² / 3 x 0.75 mm²

		<p>PVC H05VV-F 3x1.5 I_N 16 A H05VV-F 3G1.0 I_N 10 A ③ H05VV-F 3G0.75 I_N 4 A ④</p> <p>250 V/4 kV/3</p> <p>① Approvals</p>
Connecting cable, socket – SCHUKO plug, angled		<p>Length Item No. 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>
Connecting cable, plug – SCHUKO coupler		<p>Length Item No. 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>
Interconnecting cable, plug – cold equipment coupling, angled ③		<p>Length Item No. 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>
Plug – lamp socket E 27 ④		<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 _N 20 A Conductor ends, bonded: 9 mm/16 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	771-9993/007-101	.../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
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	771-9993/107-101	.../107-102	771-9993/117-101	.../117-102
		2 m	771-9993/107-201	.../107-202	771-9993/117-201	.../117-202
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		7 m	771-9993/107-701	.../107-702	771-9993/117-701	.../117-702
Connecting cable, plug – free end		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

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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

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

	<p>PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5</p> <p>250 V/4 kV/3 I_N 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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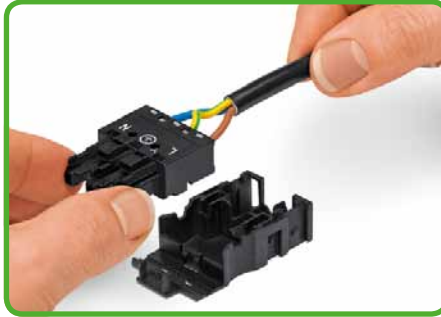
3 WINSTA® MIDI, IP 2XD

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.

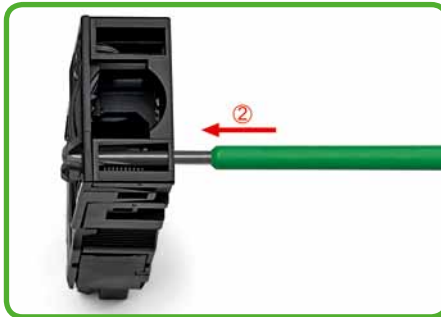


Push down strain relief clamp via 2.5 mm screwdriver alternately on both sides.

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.

Strain Relief Housing, IP 2XD

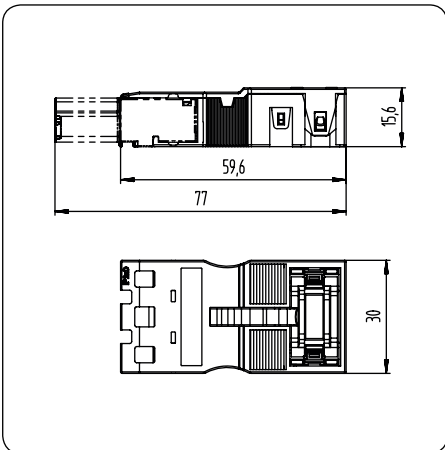
	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> - 3-pole sockets - 3-pole plugs <p>➊ Approvals</p>	
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Description	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 1 cable, 7 - 11.5 mm diameter ➋		
	black	770-503/038-000	50
	white	770-513/038-000	50
Info	Dimensions		

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

Fire load data available upon request.



3 WINSTA® MIDI, IP 2XD

for easily accessible areas

100

Cable Assemblies 3 x 1.5 mm² IP 2XD

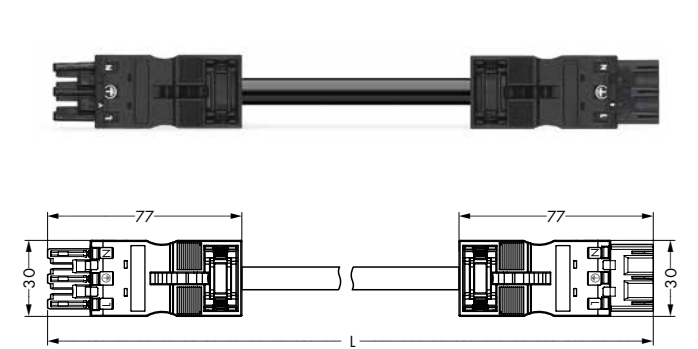
PVC H05VV-F 3G1.5
halogen-free H05Z1Z1-F 3G1.5

250 V/4 kV/3 I_N 16 A

Conductor ends, bonded: 9 mm

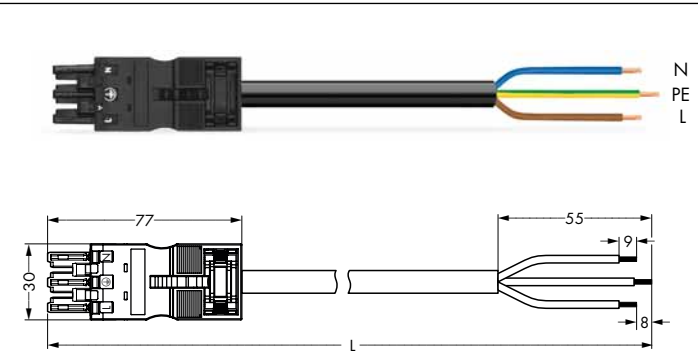
Approvals

Interconnecting cable, socket – plug



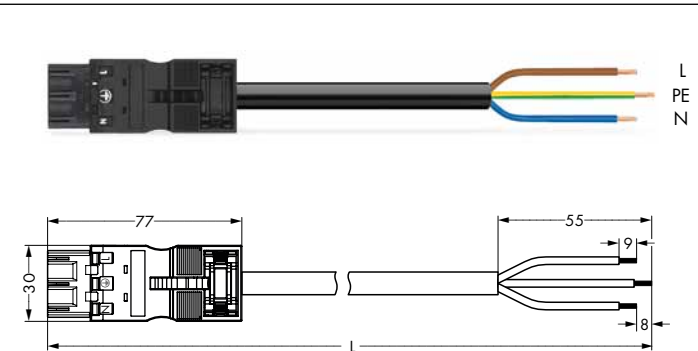
Length	Item No. black	Item No. white	Item No. black	Item No. white
● ○ Coding A				
PVC		halogen-free		
1 m	771-6993/006-101	.../006-102	771-6993/016-101	.../016-102
2 m	771-6993/006-201	.../006-202	771-6993/016-201	.../016-202
3 m	771-6993/006-301	.../006-302	771-6993/016-301	.../016-302
5 m	771-6993/006-501	.../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
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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 mm² IP 2XD

	<p>PVC H05VV-F 3G2.5 halogen-free H05Z1Z1-F 3G2.5</p> <p>250 V/4 kV/3 I_N 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
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Sockets and Plugs, 4-Pole

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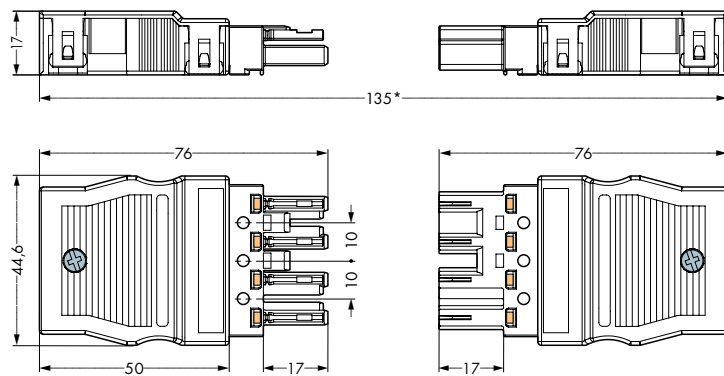


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 2 cables, 9 – 13 mm diameter ③			Plug with strain relief housing, for 2 cables, 9 – 13 mm diameter ③		
	● black	770-104	25	● black	770-114	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					

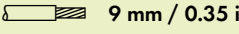
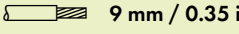
- ① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"
- ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ③ For more strain relief housings, see page 104.

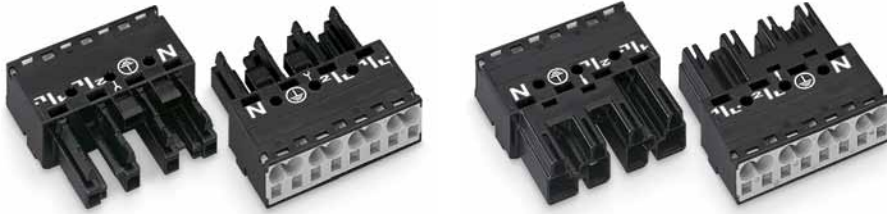
- black Coding A (N ⊕ 2|L 1|L)
- white Coding A (N ⊕ 2|L 1|L)
- green Coding Q (N PE1 PE2 L)

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



* Overall length when mated

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






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
Socket without strain relief housing			Plug without strain relief housing		
● 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		
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	



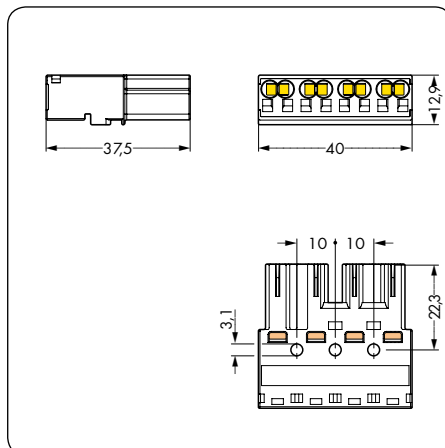
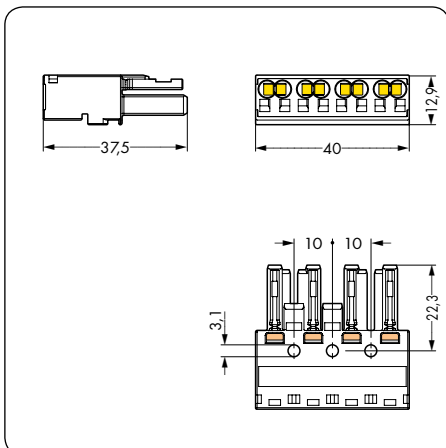
Locking lever, manually operated:
1.) Press on locking lever.
2.) Pull apart the connectors.
(Example shows 3-pole connectors)

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	



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



Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Strain relief housings	Strain relief housing, for 2 cables, 5 - 9 mm diameter 2			Strain relief housing, for 2 cables, 9 - 13 mm diameter 2		
	black	770-504/023-000	50	black	770-504	50
	white	770-514/023-000	50	white	770-514	50

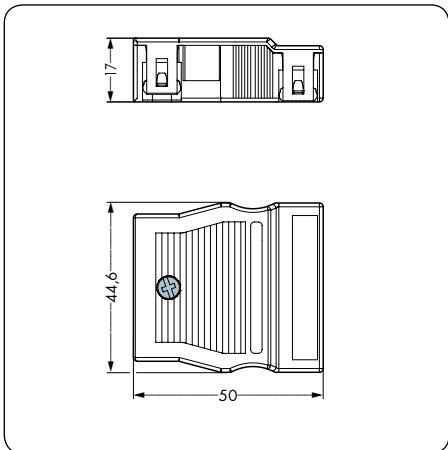
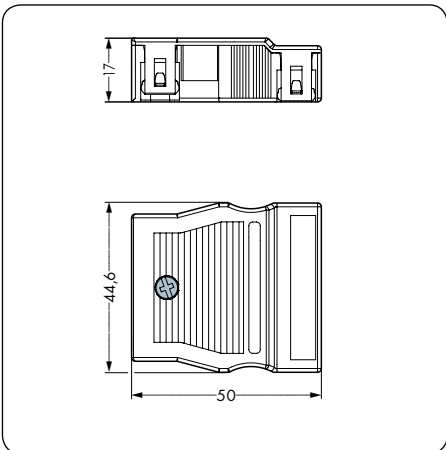
Item-Specific Accessories		
	Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm 210-333 100 Marking area: 38 x 6.5 mm	Marking strip, self-adhesive, on DIN A4 carrier card, 182 mm long, Strip height: 6 mm 210-333 100 Marking area: 38 x 6.5 mm

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.

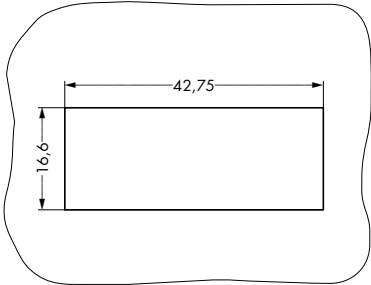






WINSTA® – Perfectly plugged!



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 ² ① 400 V/6 kV/3 I _N 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 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 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"

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

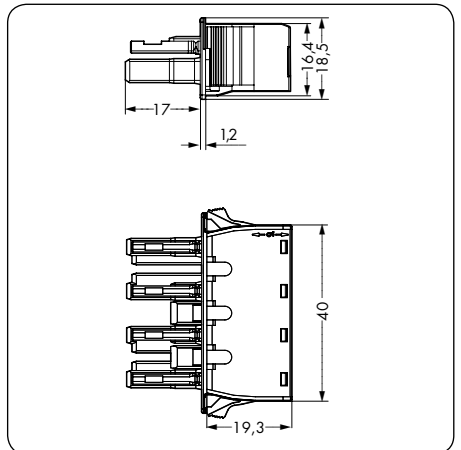
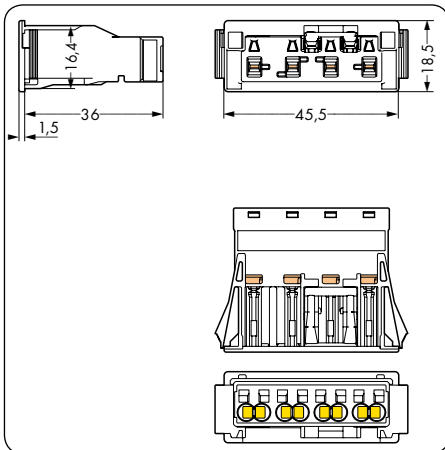
③ Direct ground contact on position PE1



● 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.

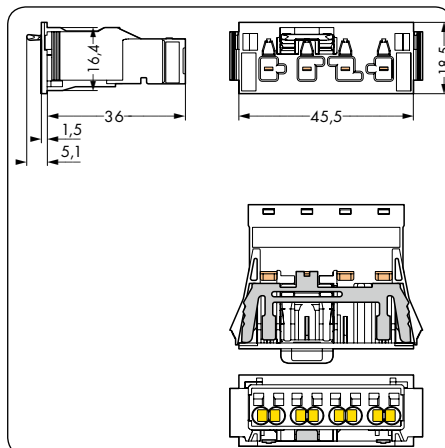
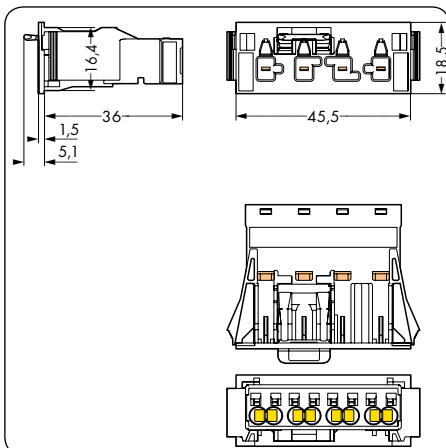


2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Plug			Plug with direct ground contact		
● 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					
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)			Coding pin, for plug (A and B coding)		
	gray	770-401 100		gray	770-401 100
Accessories, 770 Series					
Lockout cap, for cutout, 4-pole			Lockout cap, for cutout, 4-pole		
	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_N 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I_N 25 A ①</p> <p>② Approvals</p>
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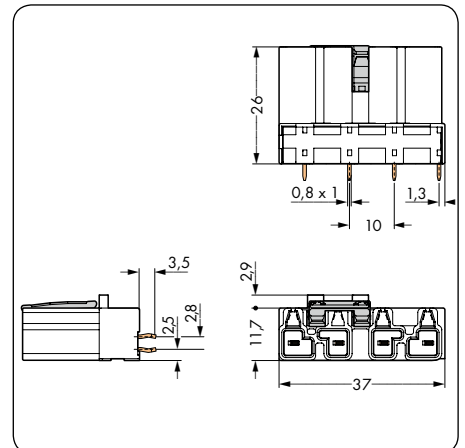
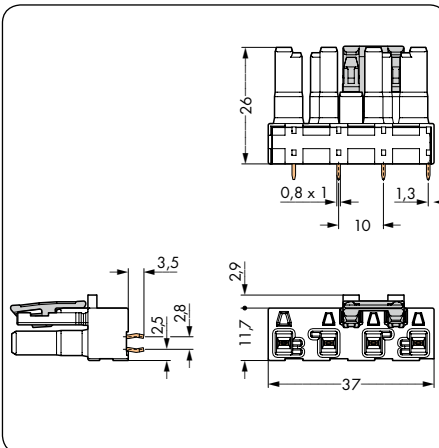


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-804	50	● black	770-814	50
	○ white	770-824	50	○ white	770-834	50
Item-Specific Accessories						
	Lockout cap, for socket, separable, 12-pole			Lockout 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					

- 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

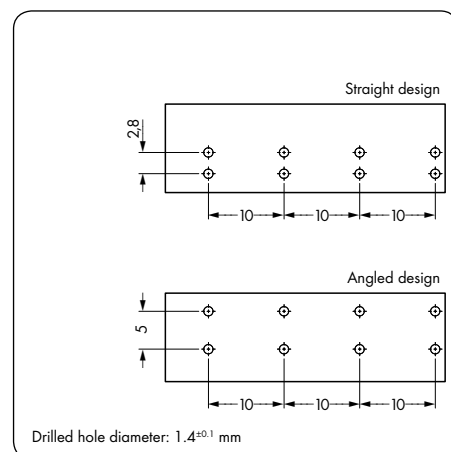
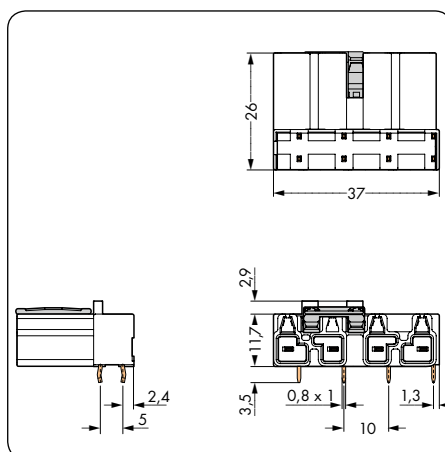
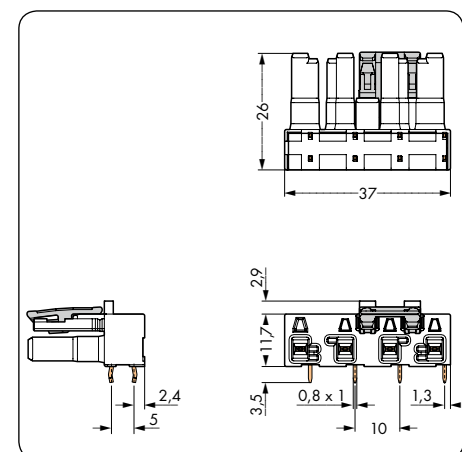
Nominal current	Thickness of PCB track	Width of PCB track	Conductor size
16 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
● 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					
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)

Dimensions	Hole patterns
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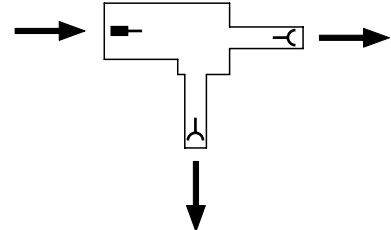
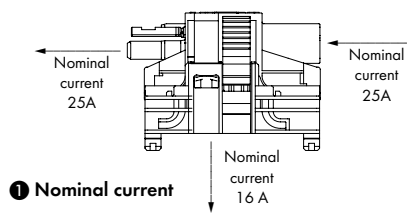
	250 V/4 kV/3 I_N 25 A (16 A) ① ② Approvals	400 V/6 kV/3 I_N 25 A ② Approvals
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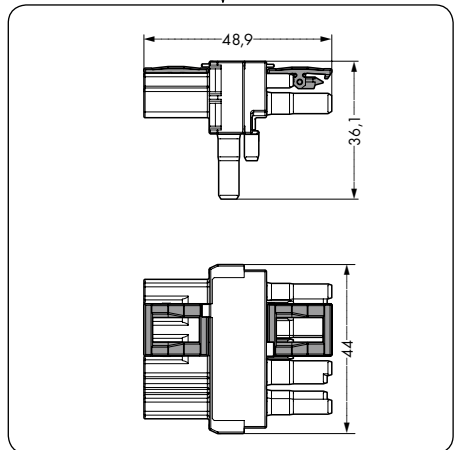
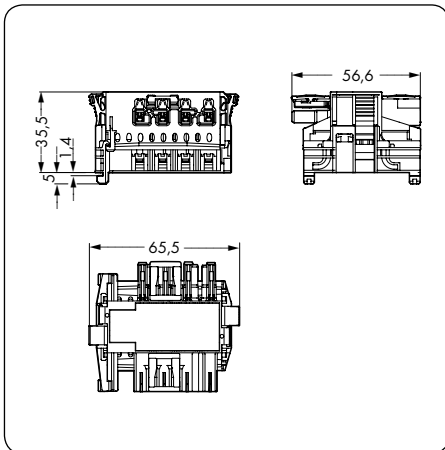
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connector, T-distribution connectors	Linect® T-connector, 4-pole, socket - plug, white housing, white cover			T-distribution connector, 1 x plug / 2 x socket		
	● black	770-626	50	● black	770-627	50
	○ white	770-6224	25	○ white	770-676	50
	Suitable for 294-8024 and 294-8124 lighting connectors			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.






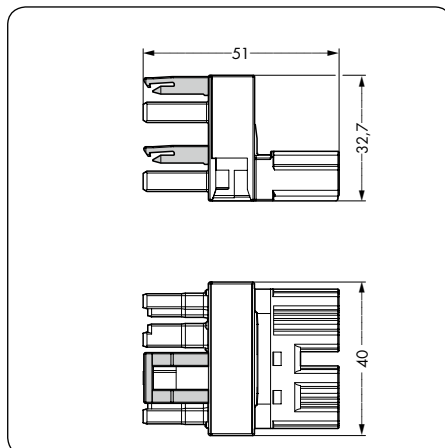
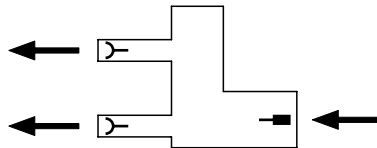
h-Distribution Connectors, 4-Pole


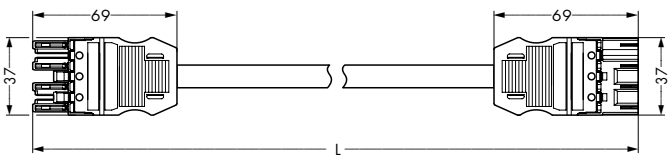

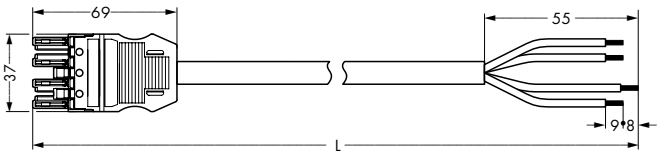

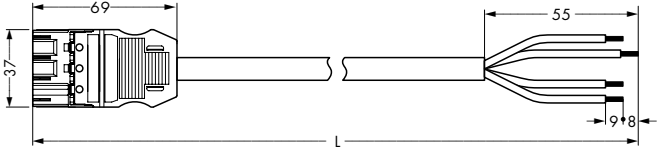
	<p>400 V/6 kV/3 I_N 25 A</p> <p>② Approvals</p>	
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Description	Color	Item No.	Pack. Unit
h-distribution connectors	h-distribution connector, unidirectional, plug / socket - socket		
	● black	770-944	50
	○ white	770-994	50
	for "flying leads," with 3rd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

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



		PVC H05VV-F 4G1.5 halogen-free H05Z1 Z1-F 4G1.5 400 V/6 kV/3 I _N 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	771-9994/006-101	.../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
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	771-9994/106-101	.../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
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	771-9994/206-101	.../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

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









WINSTA® – Perfectly plugged!

Sockets and Plugs, 5-Pole

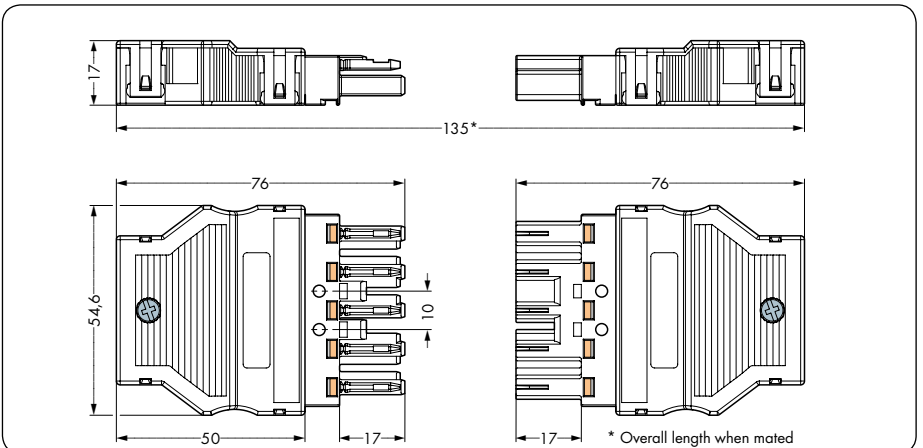
<p>2 x 0.5 – 4 mm² ① 400 V/6 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ① 400 V/6 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>
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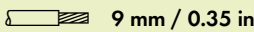
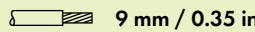


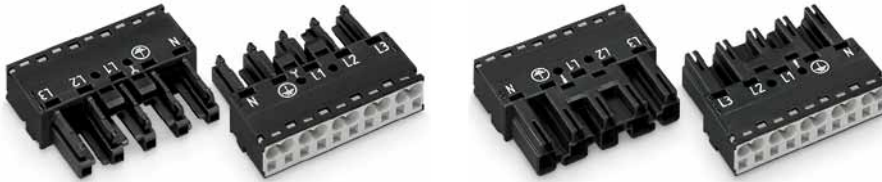
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 5-pole, with CAGE CLAMP®S connection	Socket with strain relief housing, for 2 cables, 9 – 13 mm diameter ③			Plug with strain relief housing, for 2 cables, 9 – 13 mm diameter ③		
	● black	770-105	25	● black	770-115	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					

- ① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"
 - ② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
 - ③ 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 ² ① 400 V/6 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 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
Socket without strain relief housing			Plug without strain relief housing		
● 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)

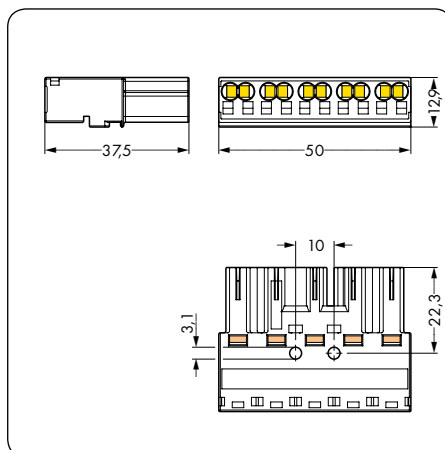
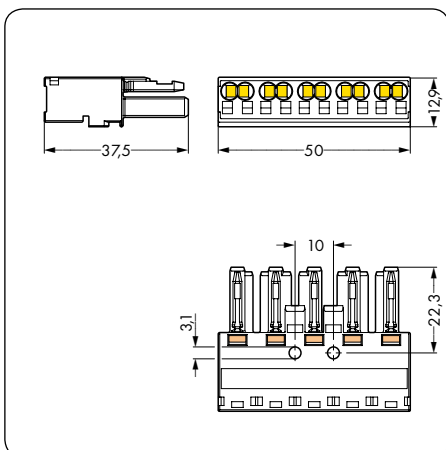
Item-Specific Accessories		
Lockout cap, for socket, separable, 12-pole		Lockout cap, for plug, separable, 5-pole
	black 770-201 100 white 770-221 100	 yellow 770-360 100
Coding pin, for plug (A and B coding)		
		 gray 770-401 100



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



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	

Dimensions









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

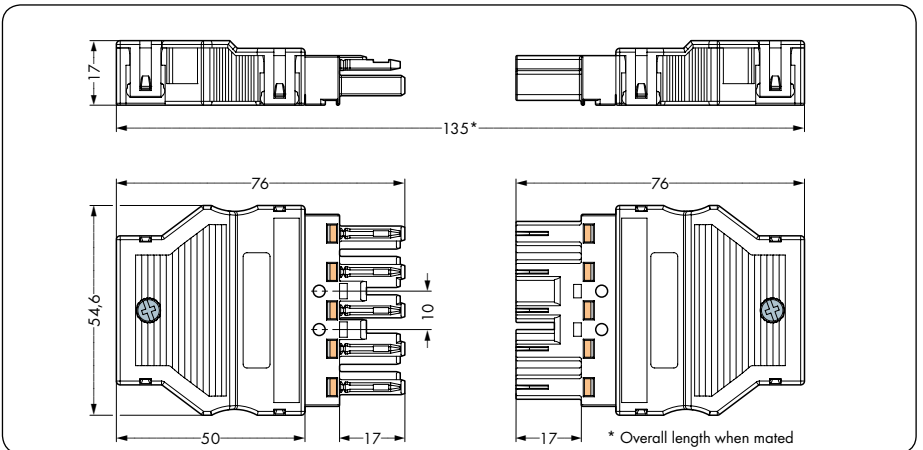
Sockets and Plugs, 5-Pole, 1-Conductor

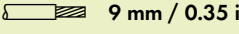
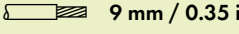
<p>0.5 – 4 mm² ❶ 400 V/6 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>AWG 20 – 12</p>	<p>0.5 – 4 mm² ❶ 400 V/6 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>AWG 20 – 12</p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 5-pole, 1-conductor, with CAGE CLAMP®S connection	Socket with strain relief housing, for 9 – 13 mm cable diameter ❸			Plug with strain relief housing, for 9 – 13 mm cable diameter ❸		
A large funneled conductor entry simplifies termination, especially with solid conductors (e.g., NYM)	● black	770-305	25	● black	770-315	25
	○ white	770-325	25	○ white	770-335	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					

- ❶ Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "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 ² ① 400 V/6 kV/3 I _N 25 A  9 mm / 0.35 in ② Approvals	AWG 20 – 12	0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 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
Socket without strain relief housing			Plug without strain relief housing		
● black	770-405	50	● black	770-415	50
○ white	770-425	50	○ white	770-435	50

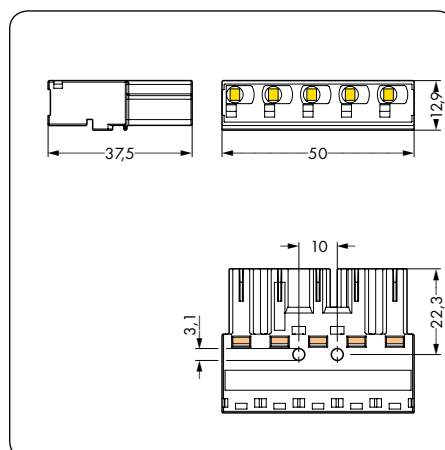
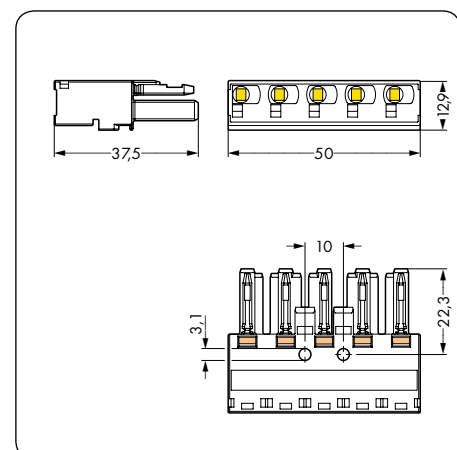


Snap on locking lever. Observe direction!
(Example shows 3-pole plug)

Item-Specific Accessories					
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			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				



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





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"> - 5-pole sockets - 5-pole plugs <p>① Approvals</p>	<p>Snap-on type strain relief housings for:</p> <ul style="list-style-type: none"> - 5-pole sockets - 5-pole plugs <p>① 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 ②			Strain relief housing, for 2 cables, 9 - 13 mm diameter ②		
	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 210-333 100 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 210-333 100 Marking area: 48 x 6.5 mm</p> 

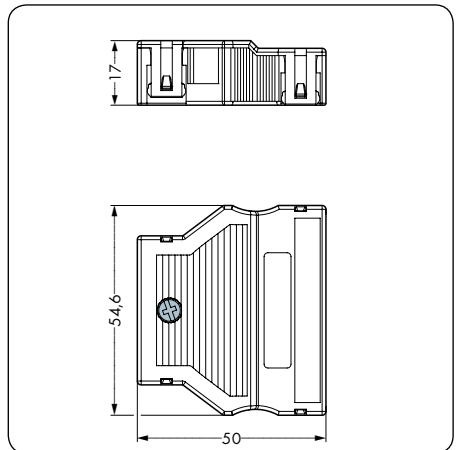
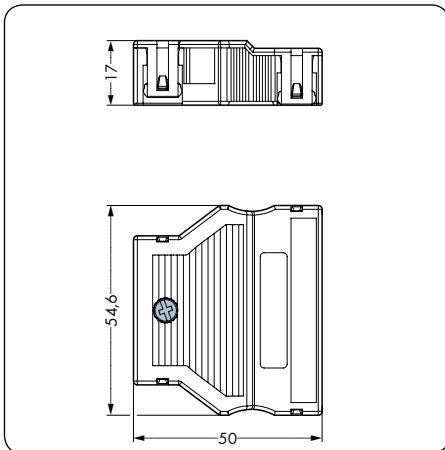
Info	Dimensions
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① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

② For H05VV and NYM cables

For other cables, please contact factory.

Fire load data available upon request.

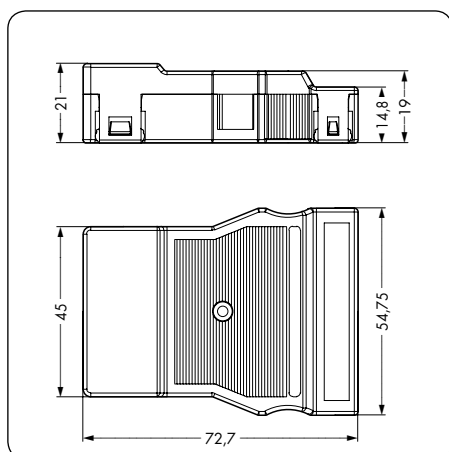


Snap-on type strain relief housings for:
 - 5-pole sockets
 - 5-pole plugs

① Approvals





Color	Item No.	Pack. Unit
Strain relief housing for 4 mm² conductors,		
for 1 cable, 11.5 – 16.5 mm diameter ②,		
Strip length, outer insulation: 71 mm		
black	770-505/021-000	25
white	770-515/021-000	25
Marking strip, self-adhesive, on DIN A4 carrier card,		
182 mm long,		
6 mm wide 210-333 100		
Marking area: 48 x 6.5 mm		
Dimensions		

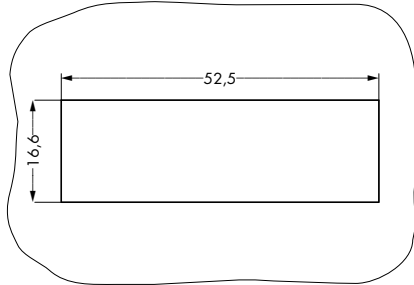


3 WINSTA® MIDI



Snap-In Sockets and Plugs, 5-Pole



120

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 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, 5-pole, with CAGE CLAMP® S connection	Socket			Socket with protruding interface		
	● 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						
	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

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

Info	Dimensions
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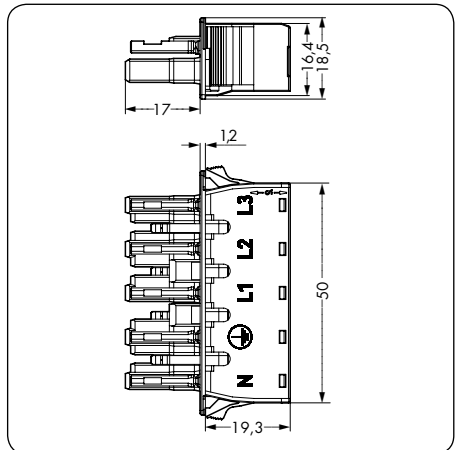
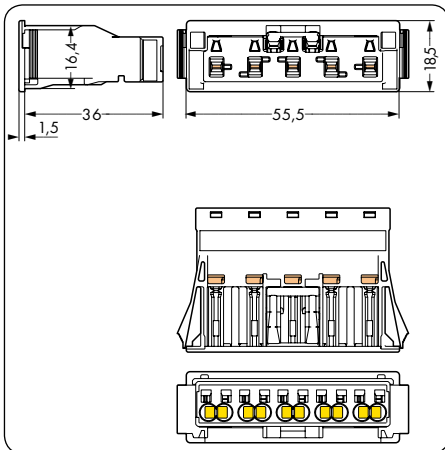
① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"



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 mm² ① 2 x AWG 20 – 12</p> <p>400 V/6 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x 0.5 – 4 mm² ① 2 x AWG 20 – 12</p> <p>400 V/6 kV/3 I_N 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
Plug			Plug with direct ground contact ③			Snap-in frame, 5-pole, for 0.5 – 2 mm plate thickness		
● 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	Snap-in frame, 5-pole, for 1 – 3 mm plate thickness, suitable for coding A / I / P / Q		
● red	770-2315	100	For "Clean Earth" applications (loading up to 32A):			black	770-320	100
For "Clean Earth" applications (loading up to 32A):			For "Clean Earth" applications (loading up to 32A):			white	770-340	100
● green	770-2335	100	● green	770-2335/007-000	100			

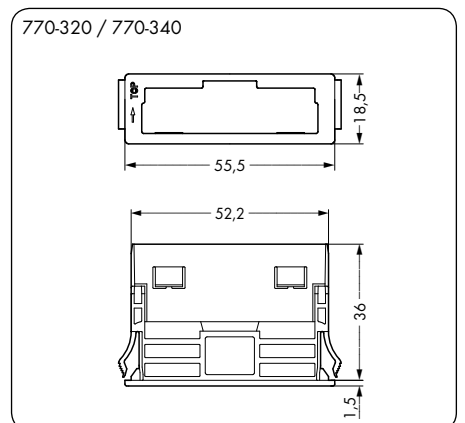
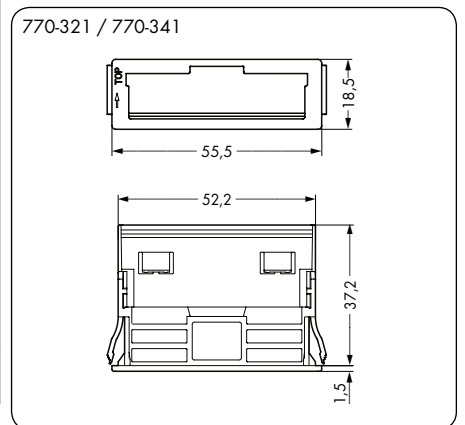
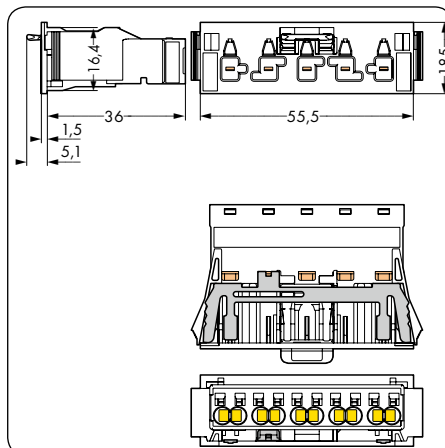
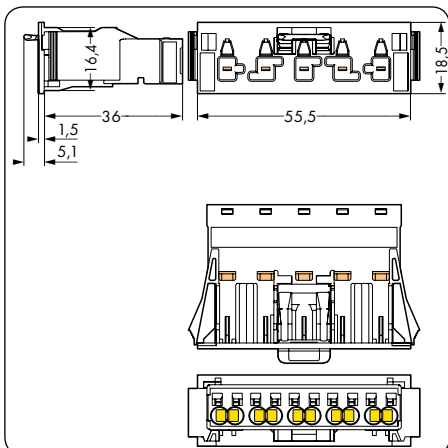
Item-Specific Accessories

<p>Lockout cap, for plug, separable, 5-pole</p> <p> yellow 770-360 100</p>	<p>Lockout cap, for plug, separable, 5-pole</p> <p> yellow 770-360 100</p>	<p>Locking lever, oversized, tool operated</p> <p> gray 770-140 100 (4x25)</p>
<p>Coding pin, for plug (A and B coding)</p> <p> gray 770-401 100</p>	<p>Coding pin, for plug (A and B coding)</p> <p> gray 770-401 100</p>	

Accessories, 770 Series

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



	<p>400 V/6 kV/3 I_N 25 A ①</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I_N 25 A ①</p> <p>② Approvals</p>
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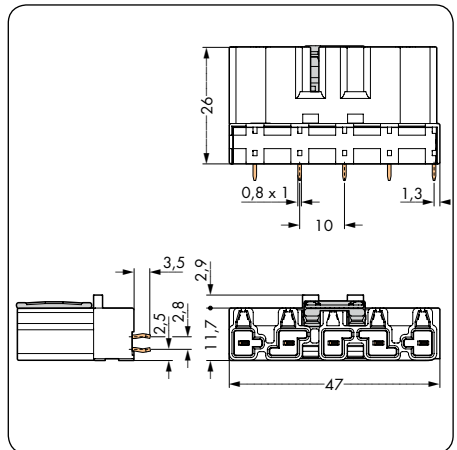
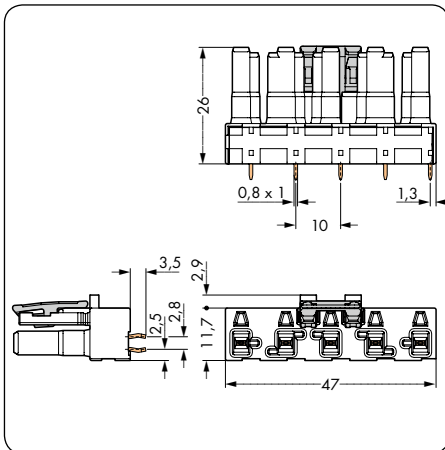
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
PCB connectors, 5-pole 2 solder pins per pole	Socket, straight			Plug, straight		
	● black	770-805	50	● black	770-815	50
	○ white	770-825	50	○ white	770-835	50
	● blue	770-3105	50	● blue	770-3115	50
Item-Specific Accessories						
	Lockout 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	
Info	Dimensions					

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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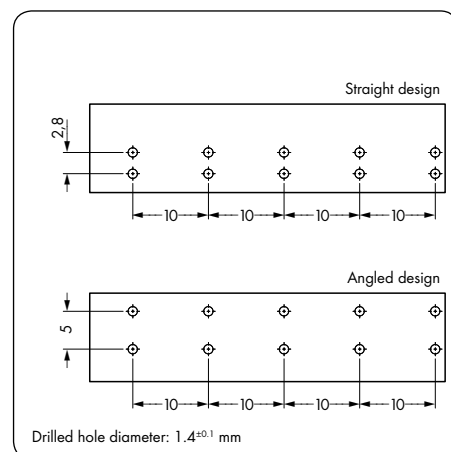
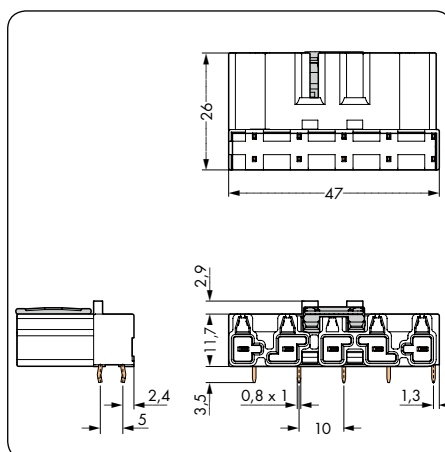
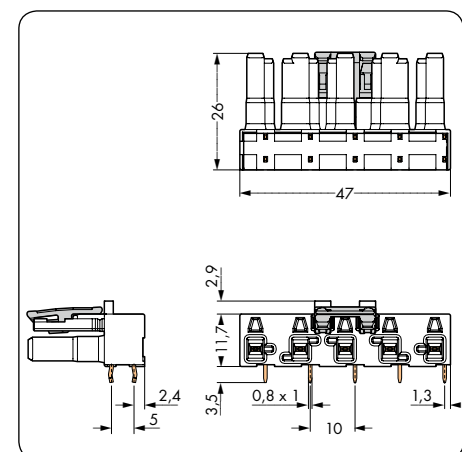
① Nominal current depends on PCB track dimensions

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 ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

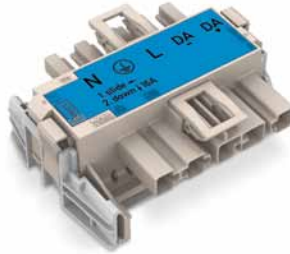
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
● black	770-805/011-000	50	● black	770-815/011-000	50
○ white	770-825/011-000	50	○ white	770-835/011-000	50
● blue	770-3105/011-000	50	● blue	770-3115/011-000	50



Item-Specific Accessories	
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
Coding pin, for plug (A and B coding)  gray 770-401 100	

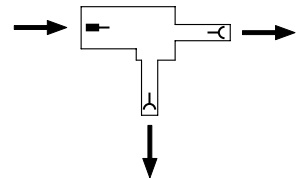
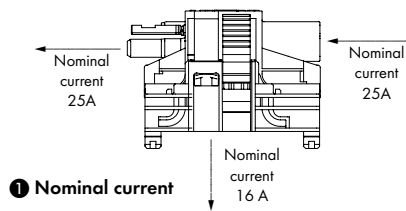
Dimensions	Hole patterns
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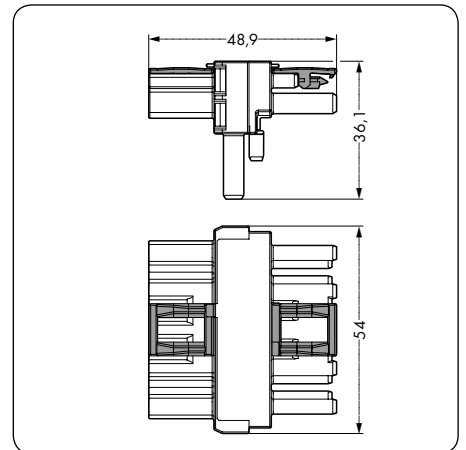
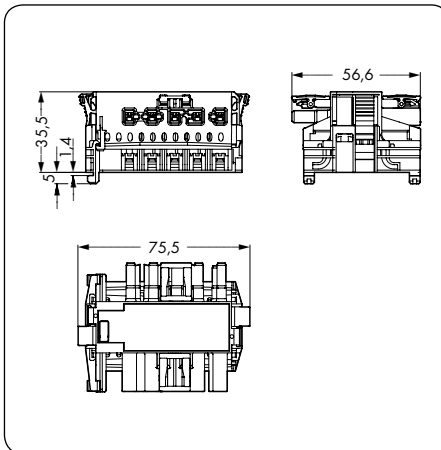
	400 V/6 kV/3 I_N 25 A (16 A) ① ② Approvals <i>*Available March 2013</i>	400 V/6 kV/3 I_N 25 A ② Approvals
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Linect® T-connectors		Linect® T-connector ③, 5-pole,			T-distribution connector,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



- 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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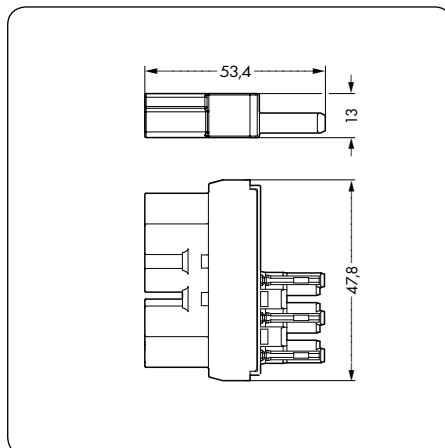
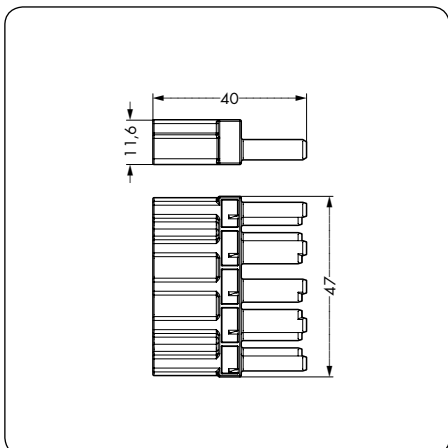


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Intermediate coupler, 1 x plug / 1 x socket			Intermediate coupler, 5- to 3-pole ⑤		
● black	770-605	100	● L1 - L	770-901	100
○ white	770-655	100	○ L1 - L	770-951	100
● blue	770-619	100	● L1 - L	770-911	100
			● L2 - L	770-902	100
			○ L2 - L	770-952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

Item-Specific Accessories

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







Dimensions

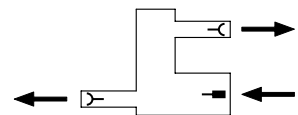
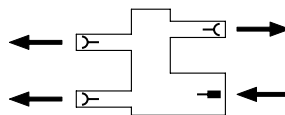


	<p>400 V/6 kV/3 I_N 25 A</p> <p>① Approvals</p>	<p>400 V/6 kV/3 I_N 25 A</p> <p>① Approvals</p>
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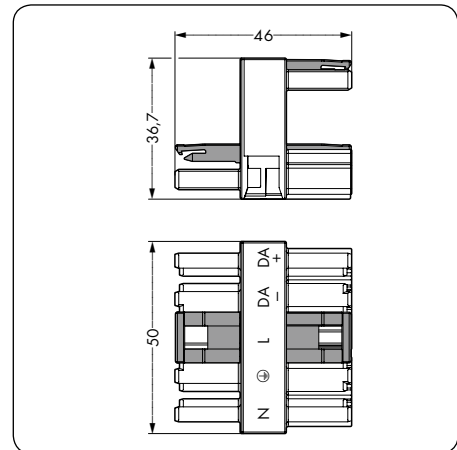
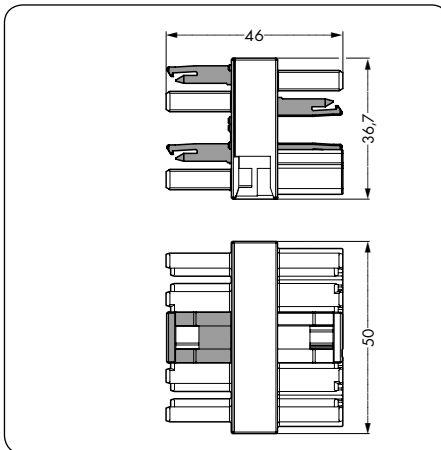


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution connectors, 3-way, h-distribution connectors, three-phase to single-phase distribution connectors, 5-pole	● black	770-609	25	● blue	770-992	50
	○ white	770-659	25			
	● blue	770-618	25			
	● red	770-909	25	● blue	770-993	50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

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



- 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_N 25 A

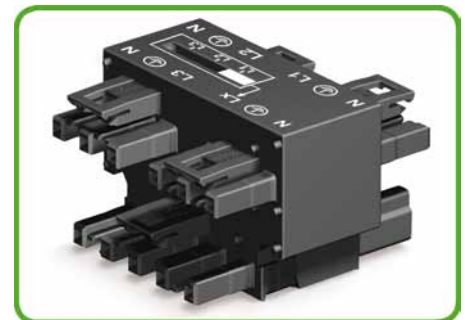
1 Approvals



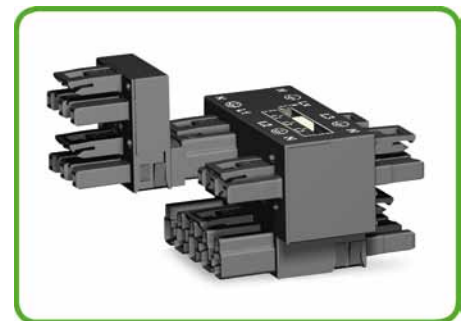
The different jumper positions allow for a wide range of different tap-off options to be selected. In addition to the 3 set tap-offs (L1/L2/L3), the selectable 4th tap-off provides for a high degree of flexibility before, during and after installation.



Movable jumper



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







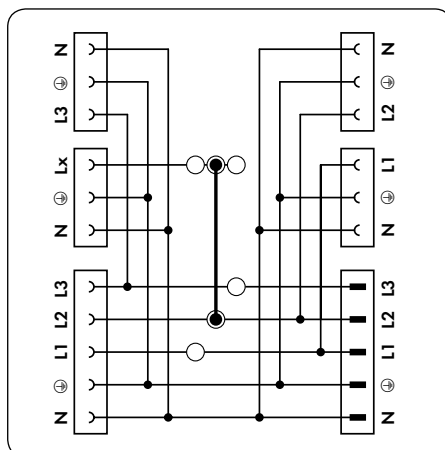
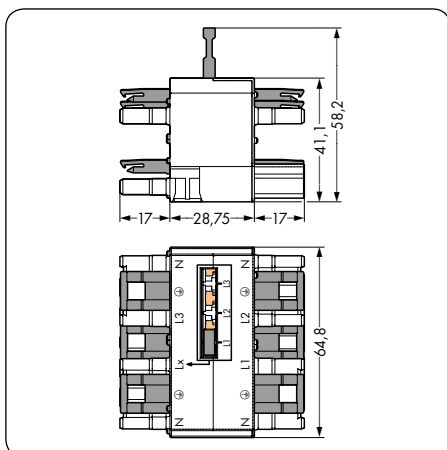
An additional h-distribution connector doubles L1. This results in the following connection options:
L1/L1/L2/L2/L3 with jumper in position L2
L1/L1/L2/L3/L3 with jumper in position L3



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
Three-phase to single-phase distribution connector 2		
● black	770-640	10
○ white	770-690	10
● red	770-940	10
Item-Specific Accessories		
Mounting plate , for distribution connectors		Lockout cap , for socket, separable, 12-pole
	black 770-625 25 white 770-675 25	
Fixing pin , for mounting plates		Lockout cap , for plug, separable, 5-pole
	3 black 890-601 250 4 black 770-601 250	
		yellow 770-360 100
Dimensions and Internal Circuit		



3 WINSTA® MIDI

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Distribution Connectors with Phase Selection

0.5 – 4 mm² ❶ 250 V/4 kV/3 400 V/6 kV/3 I _N 25 A  9 mm / 0.35 in	AWG 20 – 12
❷ Approvals	



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.



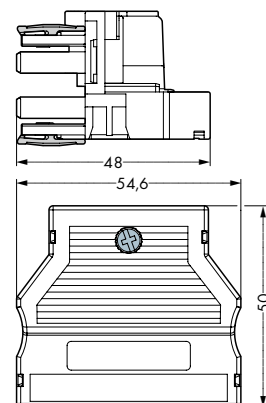
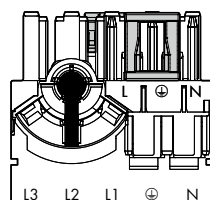
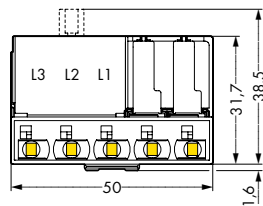
Plugging a 3-pole tap-off cable.




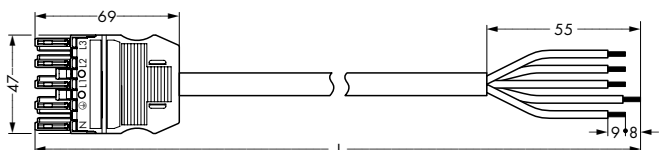


Description	Color	Item No.	Pack. Unit
Distribution connectors with phase selection, with CAGE CLAMP®S connection,	Distribution connector with phase selection, with strain relief housing, for 9 – 13 mm cable diameter ❹		
Tap-off: Socket, 3-pole, N ⊕ L			
Through contact: Socket, 5-pole, N ⊕ L1 L2 L3	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

- ❶ Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"
- ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
- ❸ Marine approvals (GL, LR, NV) relate exclusively to cables approved for marine applications.
- ❹ For more strain relief housings, see page 118.
- ❺ 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
- ❻ 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 _N 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.




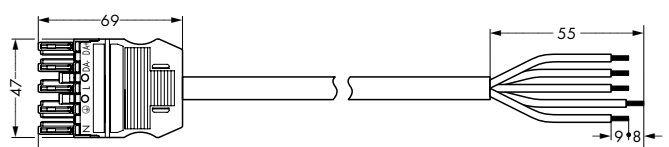

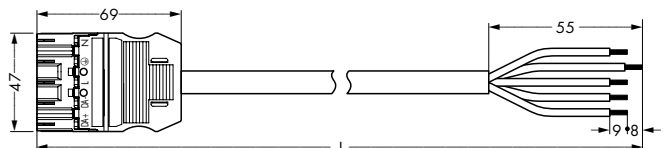





For other cables, please contact factory.

- 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)
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

		<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>				
Interconnecting cable, socket – plug		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 771-9985/006-101 .../006-102 771-9985/016-101 .../016-102</p> <p>2 m 771-9985/006-201 .../006-202 771-9985/016-201 .../016-202</p> <p>3 m 771-9985/006-301 .../006-302 771-9985/016-301 .../016-302</p> <p>5 m 771-9985/006-501 .../006-502 771-9985/016-501 .../016-502</p> <p>7 m 771-9985/006-701 .../006-702 771-9985/016-701 .../016-702</p>				
Connecting cable, socket – free end		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 771-9985/106-101 .../106-102 771-9985/116-101 .../116-102</p> <p>2 m 771-9985/106-201 .../106-202 771-9985/116-201 .../116-202</p> <p>3 m 771-9985/106-301 .../106-302 771-9985/116-301 .../116-302</p> <p>5 m 771-9985/106-501 .../106-502 771-9985/116-501 .../116-502</p> <p>7 m 771-9985/106-701 .../106-702 771-9985/116-701 .../116-702</p>				
Connecting cable, plug – free end		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 771-9985/206-101 .../206-102 771-9985/216-101 .../216-102</p> <p>2 m 771-9985/206-201 .../206-202 771-9985/216-201 .../216-202</p> <p>3 m 771-9985/206-301 .../206-302 771-9985/216-301 .../216-302</p> <p>5 m 771-9985/206-501 .../206-502 771-9985/216-501 .../216-502</p> <p>7 m 771-9985/206-701 .../206-702 771-9985/216-701 .../216-702</p>				
		Accessories				
		<p>Locking lever, for "flying leads," manually operated</p> <p> black 770-101 100 (4x25)</p> <p>white 770-121 100 (4x25)</p>				
		<p>Locking lever, for "flying leads," tool operated</p> <p> black 770-111 100 (4x25)</p> <p>white 770-131 100 (4x25)</p>				
		<p>Lockout cap, for socket, separable, 12-pole</p> <p> black 770-201 100</p> <p>white 770-221 100</p>				
<p>Coding pin, for plug (A and B coding)</p> <p> gray 770-401 100</p>		<p>Lockout cap, for plug, separable, 5-pole</p> <p> yellow 770-360 100</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 _N 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 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
Connecting cable, socket – free end		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
Connecting cable, plug – free end		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.

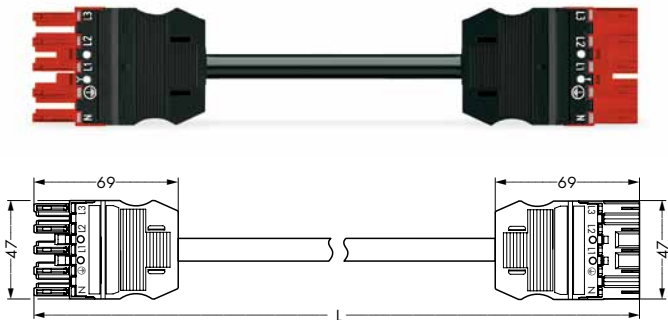
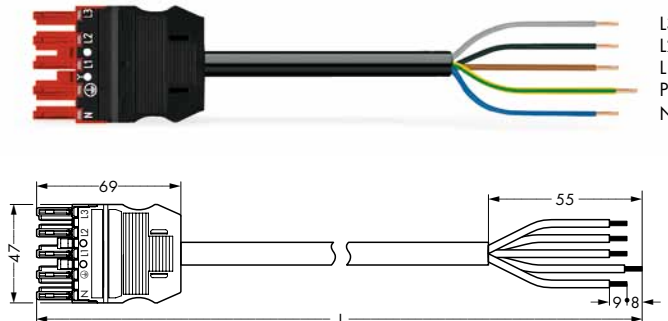
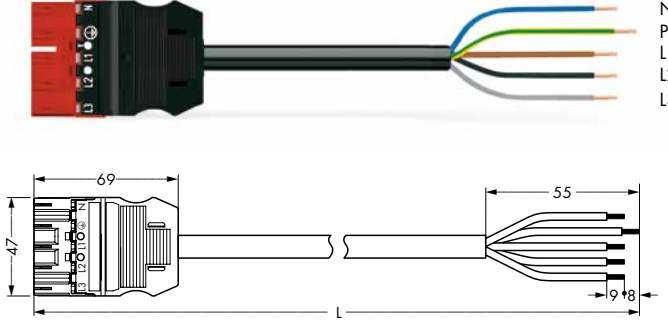
● dark gray Coding L (N ⊕ L N' L')


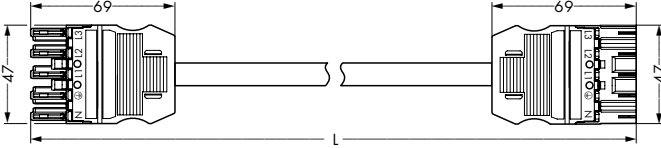

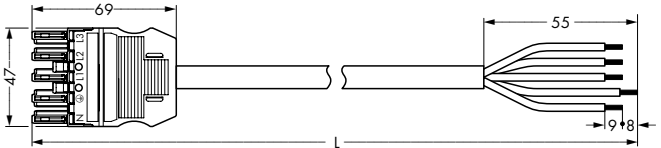

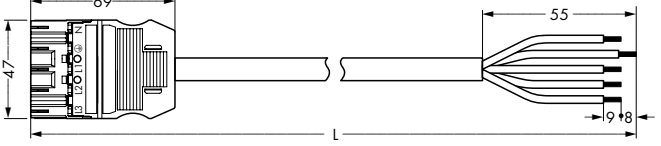
● red Coding P (N ⊕ L1 L2 L3)

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

Accessories

	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

	<p>PVC H05VV-F 5G1.5 halogen-free H05Z1Z1-F 5G1.5</p> <p>400 V/6 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
Interconnecting cable, socket – plug	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. white</th> <th>Item No. black</th> <th>Item No. white</th> </tr> </thead> <tbody> <tr> <td>● Coding P</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PVC</td> <td></td> <td></td> <td>halogen-free</td> <td></td> </tr> <tr> <td>1 m</td> <td>771-9975/006-101</td> <td>.../006-102</td> <td>771-9975/016-101</td> <td>.../016-102</td> </tr> <tr> <td>2 m</td> <td>771-9975/006-201</td> <td>.../006-202</td> <td>771-9975/016-201</td> <td>.../016-202</td> </tr> <tr> <td>3 m</td> <td>771-9975/006-301</td> <td>.../006-302</td> <td>771-9975/016-301</td> <td>.../016-302</td> </tr> <tr> <td>5 m</td> <td>771-9975/006-501</td> <td>.../006-502</td> <td>771-9975/016-501</td> <td>.../016-502</td> </tr> <tr> <td>7 m</td> <td>771-9975/006-701</td> <td>.../006-702</td> <td>771-9975/016-701</td> <td>.../016-702</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● Coding P					PVC			halogen-free		1 m	771-9975/006-101	.../006-102	771-9975/016-101	.../016-102	2 m	771-9975/006-201	.../006-202	771-9975/016-201	.../016-202	3 m	771-9975/006-301	.../006-302	771-9975/016-301	.../016-302	5 m	771-9975/006-501	.../006-502	771-9975/016-501	.../016-502	7 m	771-9975/006-701	.../006-702	771-9975/016-701	.../016-702
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● Coding P																																									
PVC			halogen-free																																						
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		PVC H05VV-F 5G2.5 halogen-free H05Z1 Z1-F 5G2.5 400 V/6 kV/3 I _N 20 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	771-9995/007-101	.../007-102	771-9995/017-101	.../017-102
		2 m	771-9995/007-201	.../007-202	771-9995/017-201	.../017-202
		3 m	771-9995/007-301	.../007-302	771-9995/017-301	.../017-302
		5 m	771-9995/007-501	.../007-502	771-9995/017-501	.../017-502
		7 m	771-9995/007-701	.../007-702	771-9995/017-701	.../017-702
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	771-9995/107-101	.../107-102	771-9995/117-101	.../117-102
		2 m	771-9995/107-201	.../107-202	771-9995/117-201	.../117-202
		3 m	771-9995/107-301	.../107-302	771-9995/117-301	.../117-302
		5 m	771-9995/107-501	.../107-502	771-9995/117-501	.../117-502
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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	771-9995/207-101	.../207-102	771-9995/217-101	.../217-102
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		5 m	771-9995/207-501	.../207-502	771-9995/217-501	.../217-502
		7 m	771-9995/207-701	.../207-702	771-9995/217-701	.../217-702

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.

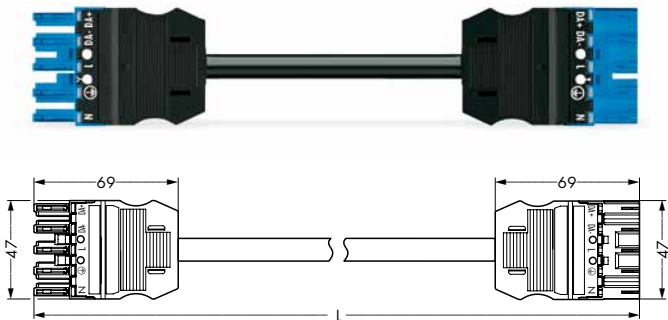
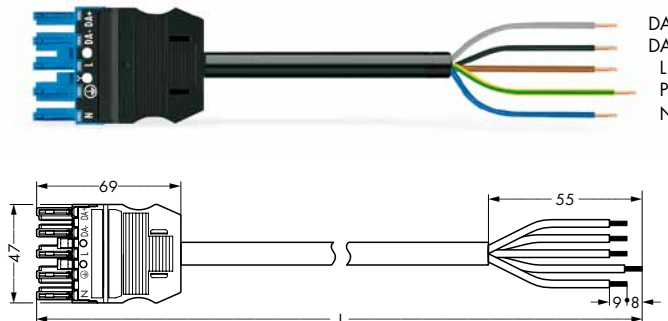
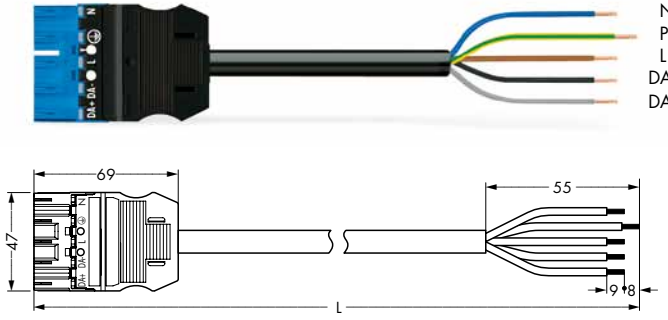
For other cables, please contact factory.

● 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)
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

	<p>PVC H05VV-F 5G2.5 halogen-free H05Z1Z1-F 5G2.5</p> <p>400 V/6 kV/3 I_N 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!

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Interconnecting cable, socket – plug		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
Connecting cable, socket – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L PVC halogen-free				
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		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
Connecting cable, plug – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● Coding L PVC halogen-free				
		1 m	771-8985/207-103	.../207-104	771-8985/217-103	.../217-104
		2 m	771-8985/207-203	.../207-204	771-8985/217-203	.../217-204
		3 m	771-8985/207-303	.../207-304	771-8985/217-303	.../217-304
		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.

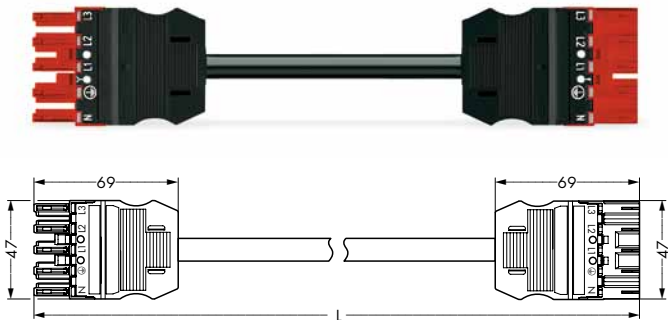
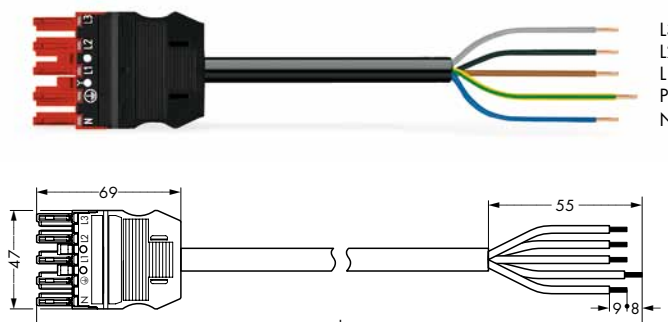
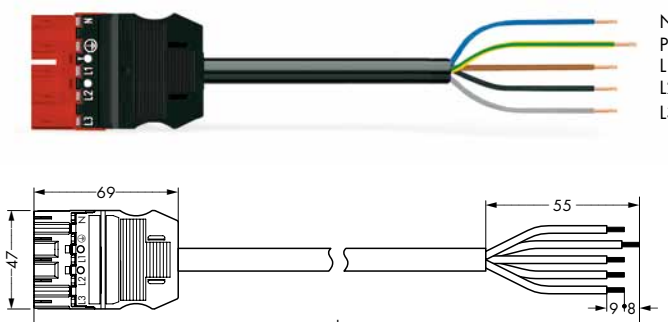




For other cables, please contact factory.

● dark gray Coding L (N ⊕ L N' L')
 ● red Coding P (N ⊕ L1 L2 L3)

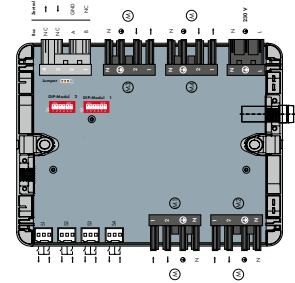
For coding information, see pages 224 to 226.
 Fire load data available upon request.





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)
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

	<p>PVC H05VV-F 5G2.5 halogen-free H05Z1Z1-F 5G2.5</p> <p>400 V/6 kV/3 I_N 20 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																																								
<p>Interconnecting cable, socket – plug</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>● Coding P</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PVC</td> <td></td> <td></td> <td>halogen-free</td> <td></td> </tr> <tr> <td>1 m</td> <td>771-9975/007-101</td> <td>.../007-102</td> <td>771-9975/017-101</td> <td>.../017-102</td> </tr> <tr> <td>2 m</td> <td>771-9975/007-201</td> <td>.../007-202</td> <td>771-9975/017-201</td> <td>.../017-202</td> </tr> <tr> <td>3 m</td> <td>771-9975/007-301</td> <td>.../007-302</td> <td>771-9975/017-301</td> <td>.../017-302</td> </tr> <tr> <td>5 m</td> <td>771-9975/007-501</td> <td>.../007-502</td> <td>771-9975/017-501</td> <td>.../017-502</td> </tr> <tr> <td>7 m</td> <td>771-9975/007-701</td> <td>.../007-702</td> <td>771-9975/017-701</td> <td>.../017-702</td> </tr> </tbody> </table>	Length	Item No. black	Item No. white	Item No. black	Item No. white	● Coding P					PVC			halogen-free		1 m	771-9975/007-101	.../007-102	771-9975/017-101	.../017-102	2 m	771-9975/007-201	.../007-202	771-9975/017-201	.../017-202	3 m	771-9975/007-301	.../007-302	771-9975/017-301	.../017-302	5 m	771-9975/007-501	.../007-502	771-9975/017-501	.../017-502	7 m	771-9975/007-701	.../007-702	771-9975/017-701	.../017-702
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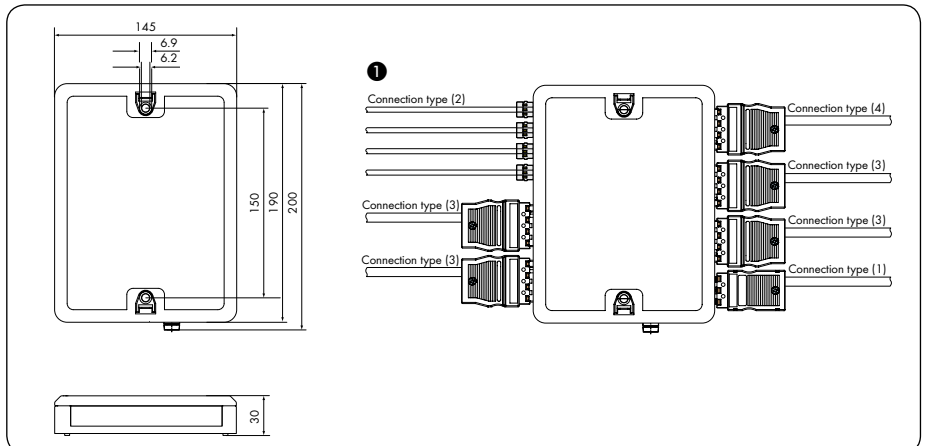
	Sunblind box with 4 switch inputs and with 4 power outputs	Technical data
--	---	-----------------------



Description	Color	Item No.	Pack. Unit	Technical data																																
Sunblind box 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.	Sunblind box black	770-629/130-000	1	<table border="0"> <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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Item-Specific Accessories																																				
 I/O module , with RS-485 interface, configurable 750-653/003-000			1																																	
 h-distribution connector , bi-directional, plug - socket / socket 770-633			50																																	
	Miniature metric fuse , 5 x 20 mm, 6.3 A (time-delay) 282-451		200 (20x10)																																	
	Connector set , for sunblind box ①		770-5001/100-000	1																																
Info	Dimensions																																			

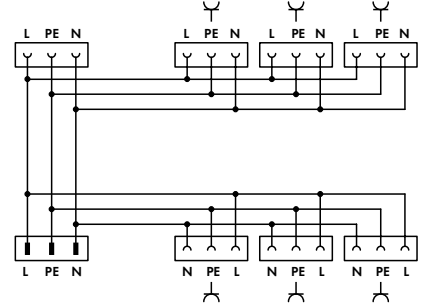
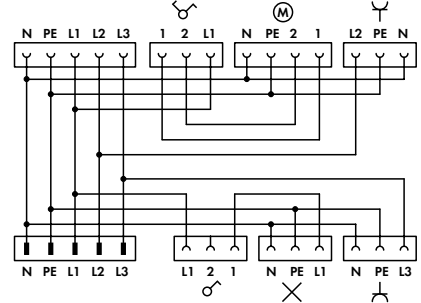
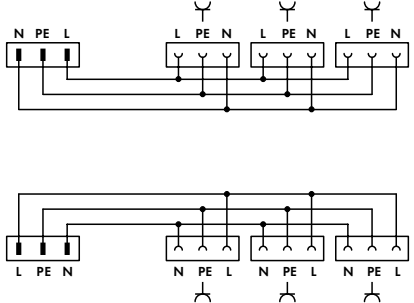
For more information, please visit www.wago.com.

Fire load data available upon request.

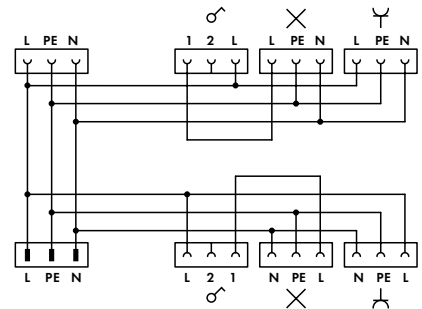
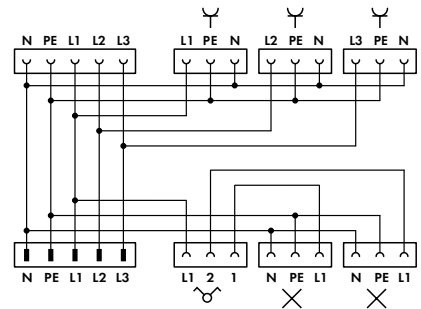
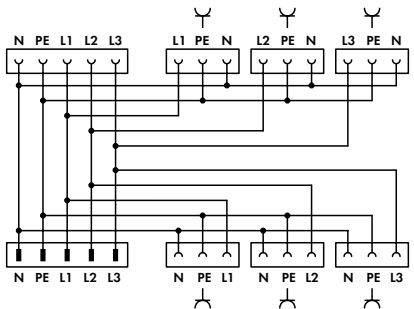


Distribution Boxes, Wired

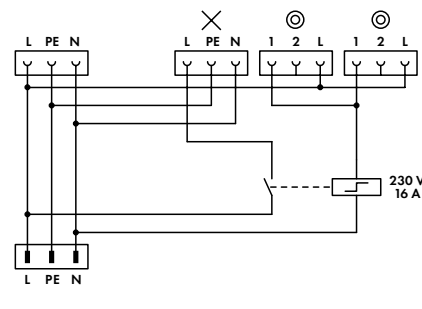
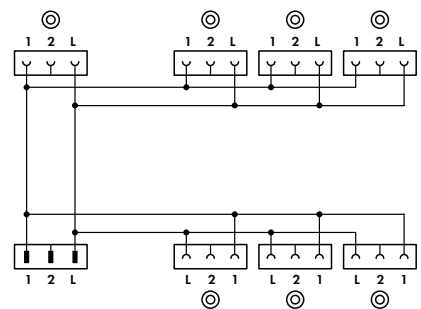
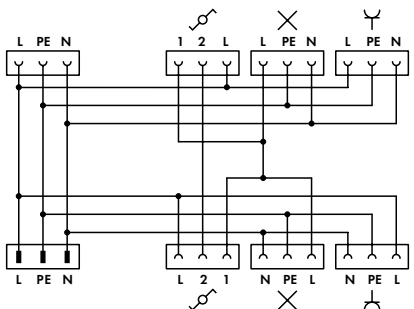
<p>Internal wiring 4 mm² 400 V / 6 kV / 3 5-pole 250 V / 4 kV / 3 3-pole I_N 25 A</p>	<p>Internal wiring 4 mm² 400 V / 6 kV / 3 5-pole 250 V / 4 kV / 3 3-pole I_N 25 A</p>	<p>Internal wiring 2.5 mm² / 4 mm² 400 V / 6 kV / 3 5-pole 250 V / 4 kV / 3 3-pole max. 25 A, depends on the built-in appliance</p>
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Distribution box, separate circuits			Distribution box, sunblind control, single-pole switch, distribution			Distribution box, 1-phase distribution		
black	770-631/106-000	1	black	770-631/107-000	1	black	770-631/104-000	1
white	770-681/106-000	1	white	770-681/107-000	1	white	770-681/104-000	1



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



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

For other circuits, please contact factory.

Strain Relief Housings, 6-Pole

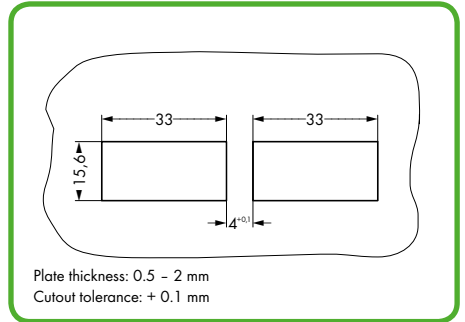
Snap-on type strain relief housings for:

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



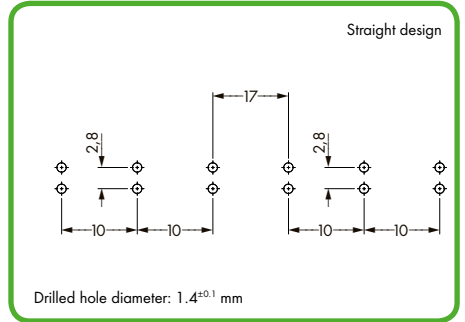
Application example: 6-pole connector

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



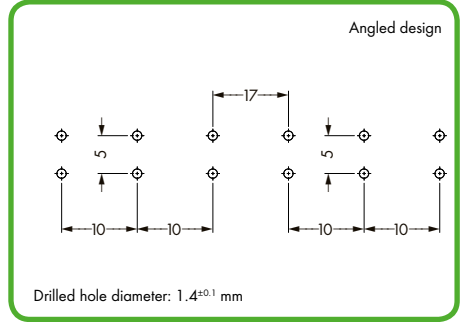
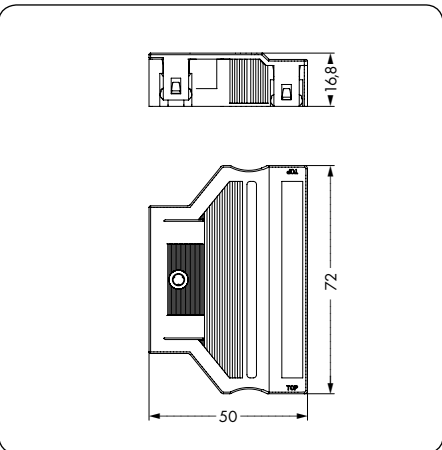
Using a straight, 6-pole PCB connector requires the hole patterns shown above.

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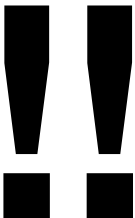
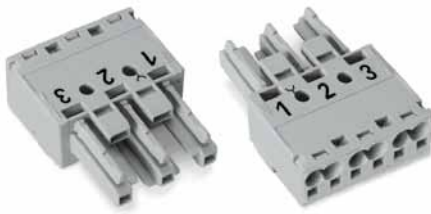
❶ For H05VV and NYM cables
❷ For H05VV cables

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:

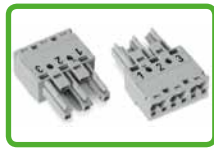
B-Coded components of the *WINSTA*[®] MIDI special series are designed for specialty applications (e.g., measurement, control and regulation technology) and certified according to DIN EN 61984. In addition to the gray models for 110–400V voltages, there is now also a variant in light green for low voltages 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*[®] 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 mm² / 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.



770 Series	
Pluggable Connectors, 2-Pole	145
Pluggable Connectors, 3-Pole	150
Pluggable Connectors, 4-Pole	158
Pluggable Connectors, 5-Pole	166



770 Series	
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



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



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

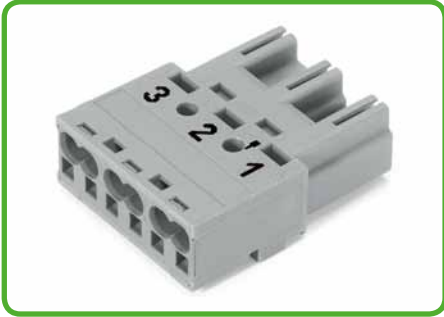


771 Series	
Cable Assemblies, 2-Pole	148 - 149
Cable Assemblies, 3-Pole	156 - 157
Cable Assemblies, 4-Pole	164 - 165
Cable Assemblies, 5-Pole	172 - 173

4 Handling WINSTA® MINI special, 770 Series

144

Pole marking



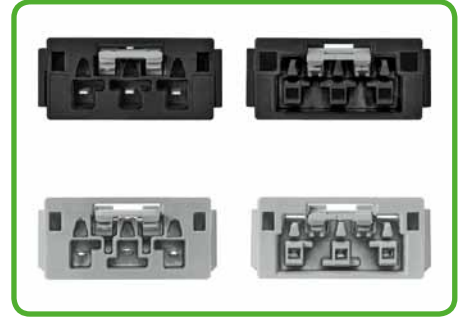
Gray, B-coded connector with "3 2 1" marking; e.g., control signal (A circuit).

Circuit identification



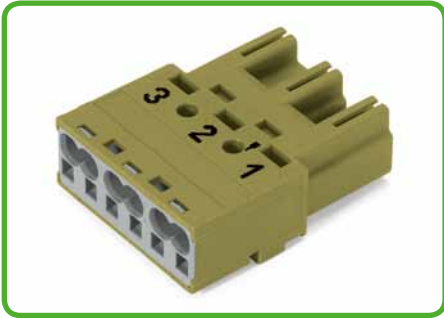
Easy circuit identification via different marking and colors.

Compatibility



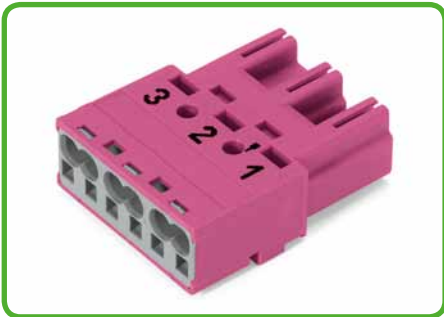
B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

Pole marking

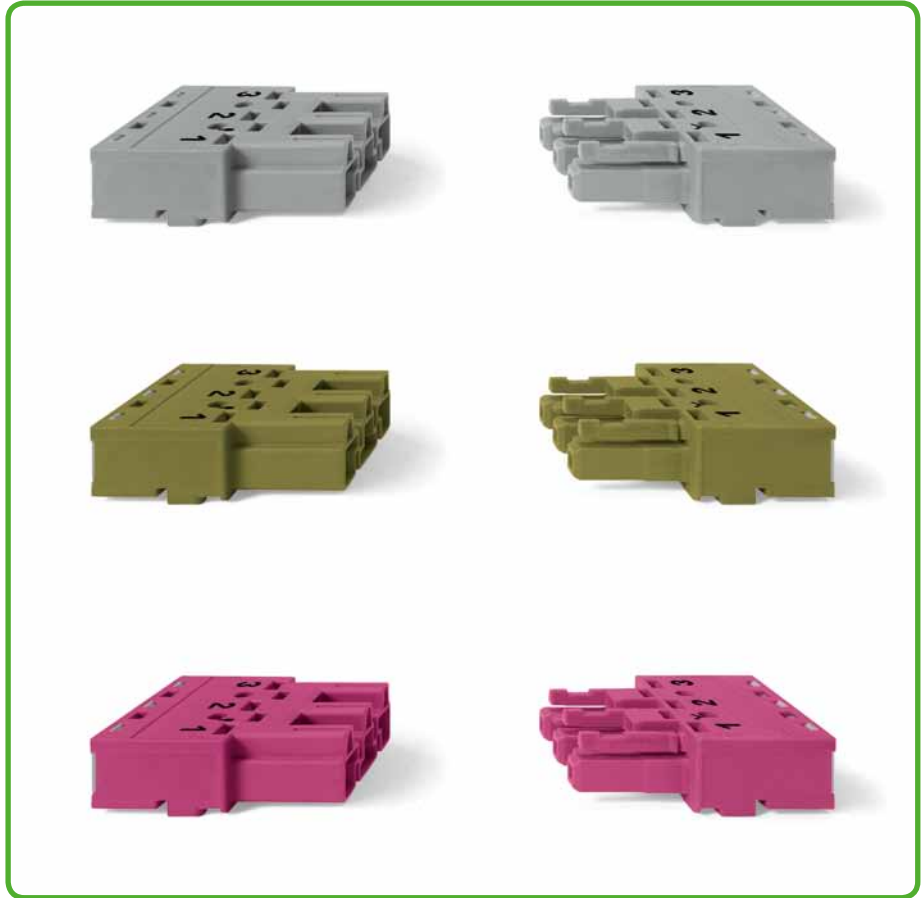


Light green, B-coded connector with "3 2 1" marking; e.g., DC power supply (24V circuit).

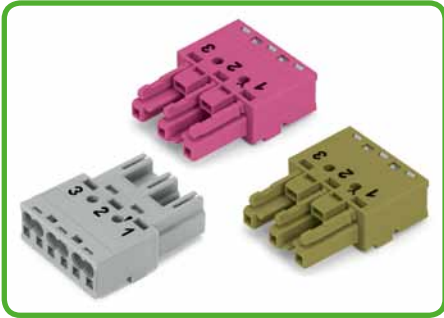
Pole marking



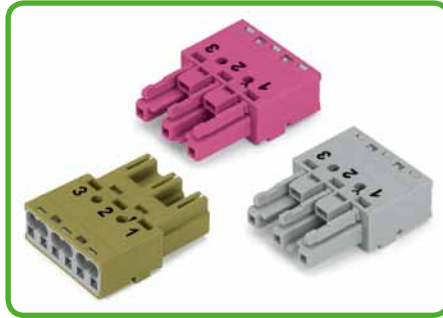
Pink, B-coded connector with "3 2 1" marking; e.g., bus signal (B circuit).



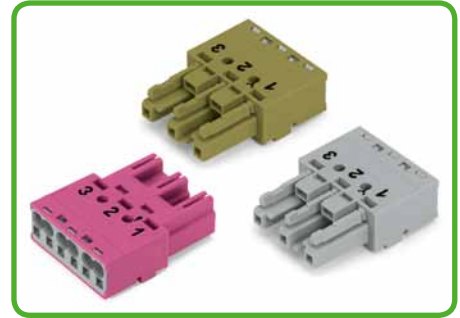
Plug compatibility



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





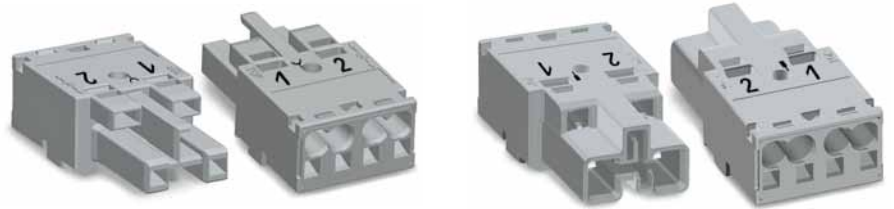
Important note:
Different colors and/or pole marking are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.







WINSTA® MIDI special Sockets and Plugs, 2-Pole



CAGE CLAMP® S

<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 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	
<p>Strain relief housing, for 1 cable, 5 - 9 mm diameter</p> <p> black 770-502/042-000 50 white 770-512/042-000 50</p>	<p>Strain relief housing, for 1 cable, 5 - 9 mm diameter</p> <p> black 770-502/042-000 50 white 770-512/042-000 50</p>
<p>Strain relief housing, for 1 cable, 7 - 10.5 mm diameter</p> <p> black 770-502/041-000 50 white 770-512/041-000 50</p>	<p>Strain relief housing, for 1 cable, 7 - 10.5 mm diameter</p> <p> black 770-502/041-000 50 white 770-512/041-000 50</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
------	------------

① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"

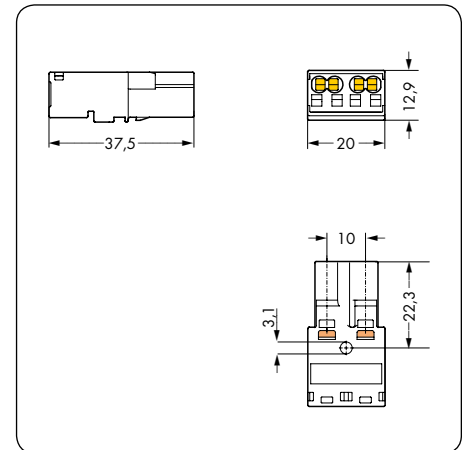
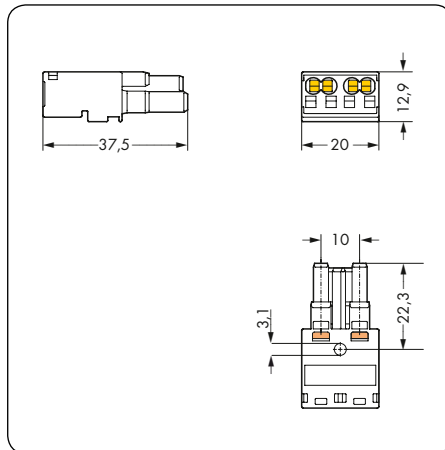
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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.

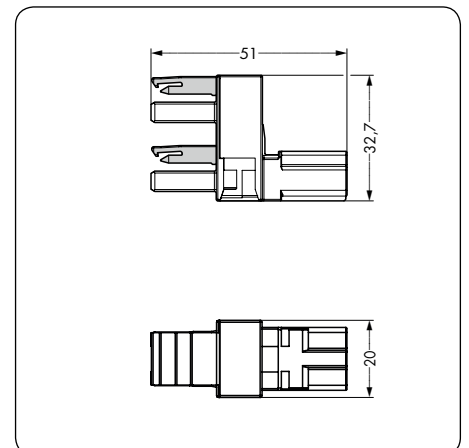
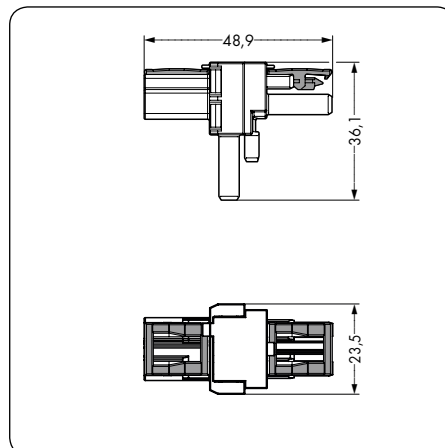
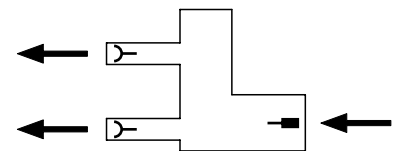
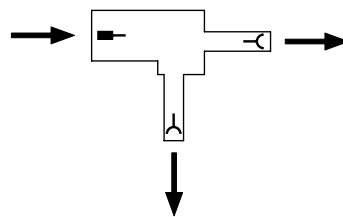


T- and h-Distribution Connectors, 2-Pole

	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
T-distribution connectors, h-distribution connectors	T-distribution connector, 1 x plug / 2 x socket			h-distribution connector, unidirectional, plug / socket - socket		
	● gray	770-1601	50	● gray	770-1651	50
	● light green	770-1602	50	● light green	770-1652	50
	● pink	770-1603	50	● pink	770-1653	50
	for "flying leads," with 3rd locking lever			for "flying leads," with 3rd locking lever		
	● gray	770-1701	50	● gray	770-1751	50
	● light green	770-1702	50	● light green	770-1752	50
	● pink	770-1703	50	● pink	770-1753	50
	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 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	
Dimensions						



4 WINSTA® MIDI special Cable Assemblies 2 x 1.5 mm²

		PVC Control line: 2 x 1.5, gray 250 V/4 kV/3 I _N 16 A Conductor ends, bonded: 9 mm ① Approvals																												
Interconnecting cable, socket – plug		Color Length Item No. black Coding B PVC																												
		<table border="0"> <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	
●	1 m	771-8992/006-103																												
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●	3 m	771-8992/006-307																												
●	5 m	771-8992/006-507																												
Connecting cable, socket – free end		Color Length Item No. black Coding B PVC																												
		<table border="0"> <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	
●	1 m	771-8992/106-103																												
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●	3 m	771-8992/106-307																												
●	5 m	771-8992/106-507																												
Connecting cable, plug – free end		Color Length Item No. black Coding B PVC																												
		<table border="0"> <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	
●	1 m	771-8992/206-103																												
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●	3 m	771-8992/206-307																												
●	5 m	771-8992/206-507																												
Info		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.</p> <p>For other cables, please contact factory.</p> <p>● gray Coding B (1 2) ● light green Coding B (1 2) ● pink Coding B (1 2)</p> <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>		<p>Locking lever, for "flying leads," manually operated</p> <table border="0"> <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="0"> <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="0"> <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="0"> <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
	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																											

Cable Assemblies 2 x 2.5 mm²

		PVC	Control line: 2 x 2.5, gray	
		250 V/4 kV/3 I _N 20 A		
		Conductor ends, bonded: 9 mm		
		① Approvals		
Interconnecting cable, socket – plug		Color	Length	Item No. black
		Coding B		
		PVC		
			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
Connecting cable, socket – free end		Color	Length	Item No. black
		Coding B		
		PVC		
			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
Connecting cable, plug – free end		Color	Length	Item No. black
		Coding B		
		PVC		
			1 m	771-8992/207-103
			3 m	771-8992/207-303
			5 m	771-8992/207-503
			1 m	771-8992/207-105
			3 m	771-8992/207-305
			5 m	771-8992/207-505
			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 mm², 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 mm² 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



150

<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 25 A</p> <p> 9 mm / 0.35 in</p> <p>② Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ① 250 V/4 kV/3 I_N 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						
	Strain relief housing, for 2 cables, ③ 4.5 – 8 mm diameter  black 770-503/023-000 50 white 770-513/023-000 50			Strain relief housing, for 2 cables, ③ 4.5 – 8 mm diameter  black 770-503/023-000 50 white 770-513/023-000 50		
	Strain relief housing, for 2 cables, ③ 8.5 – 11.5 mm diameter  black 770-503 50 white 770-513 50			Strain relief housing, for 2 cables, ③ 8.5 – 11.5 mm diameter  black 770-503 50 white 770-513 50		

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	Dimensions					

① Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"

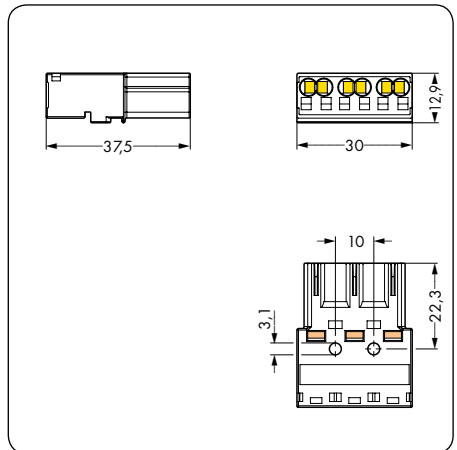
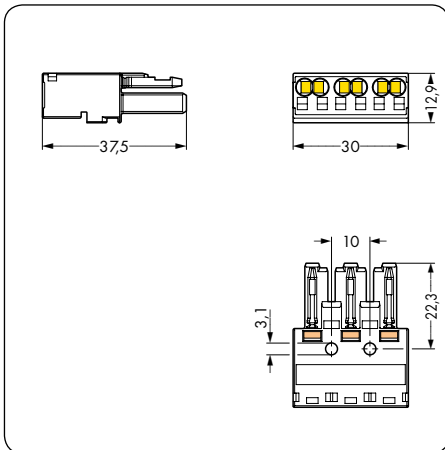
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Standard printing (without suffix number)



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

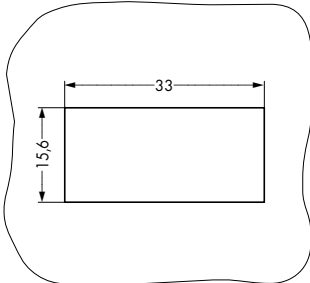
For additional pole marking, see page 227.





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

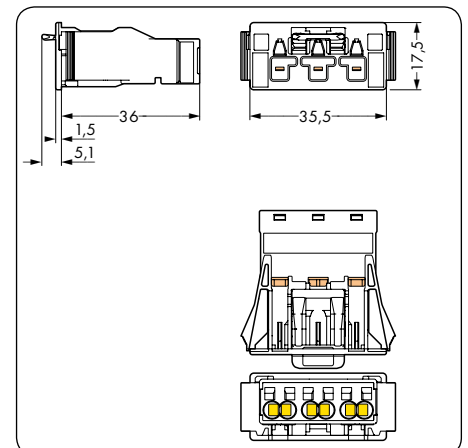
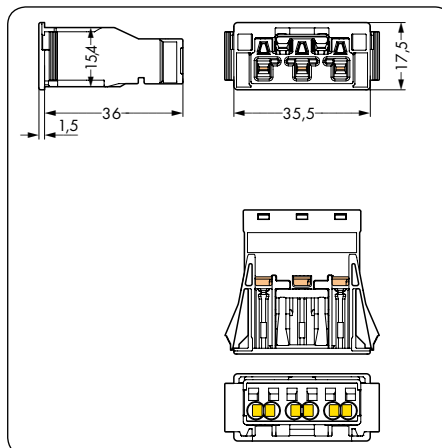


Snap-In Sockets and Plugs, 3-Pole

Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 25 A	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 250 V/4 kV/3 I _N 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, 3-pole, with CAGE CLAMP®S connection	Socket			Plug		
	● 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.		
Item-Specific Accessories						
	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		
Accessories, 770 Series						
	Lockout cap, for cutout, 3-pole  black 770-643 100 white 770-693 100			Lockout cap, for cutout, 3-pole  black 770-643 100 white 770-693 100		
Dimensions						



4 WINSTA® MIDI special PCB Connectors, 3-Pole

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	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		
	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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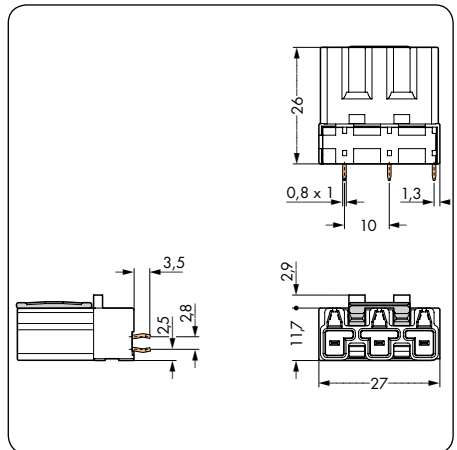
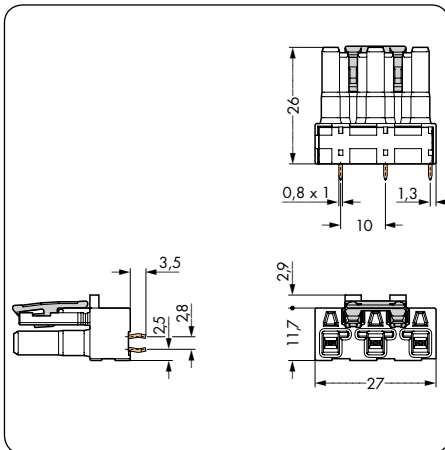
① For current load, see table on page 153.

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.



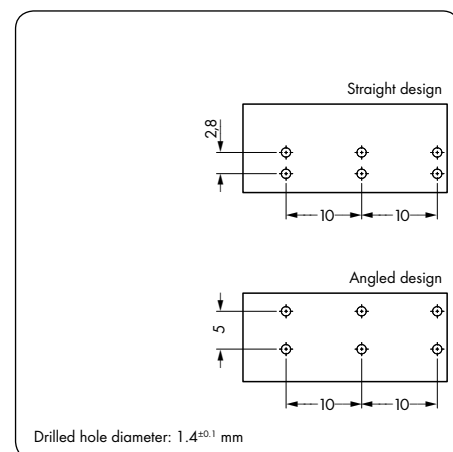
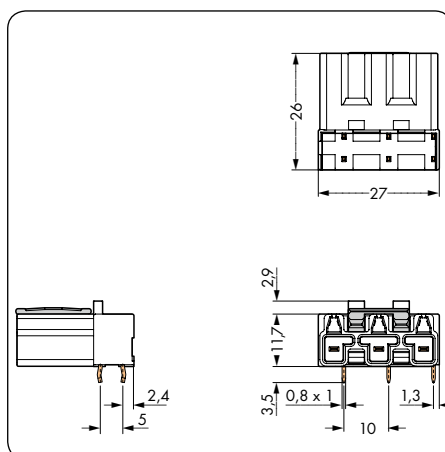
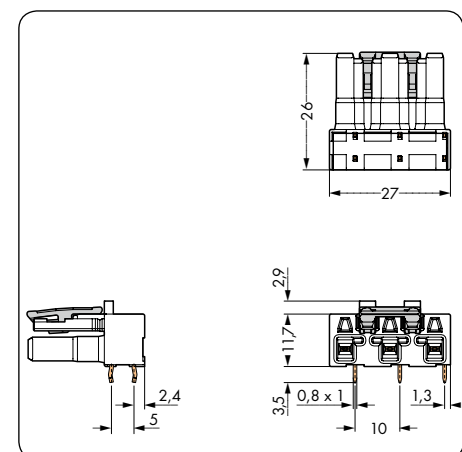
250 V/4 kV/3 I_N 25 A ① ② Approvals	250 V/4 kV/3 I_N 25 A ① ② Approvals
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① Nominal current depends on PCB track dimensions

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 ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

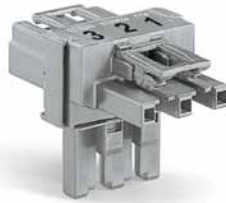
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
gray	770-843/011-000	100	gray	770-853/011-000	100
light green	770-863/011-000	100	light green	770-873/011-000	100
pink	770-883/011-000	100	pink	770-893/011-000	100
For additional pole marking, see page 227.			For additional pole marking, see page 227.		
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)	
Dimensions					
Hole patterns					



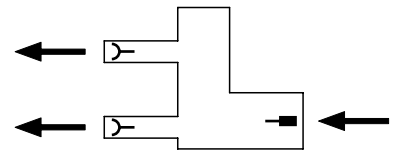
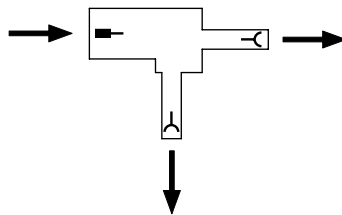
4 WINSTA® MIDI special T- and h-Distribution Connectors, 3-Pole

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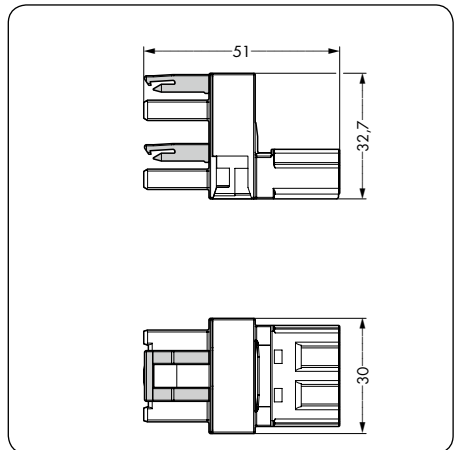
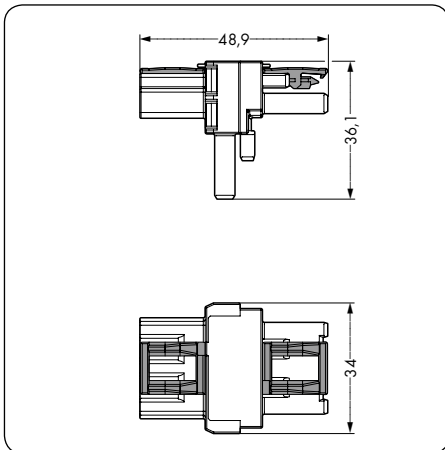
	<p>250 V/4 kV/3 I_N 25 A</p> <p>① Approvals</p>	<p>250 V/4 kV/3 I_N 25 A</p> <p>① Approvals</p> <p style="text-align: right;"><i>Available November 2013</i></p>
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Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connectors, h-distribution connectors	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.		
Item-Specific Accessories						
	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		
Info	Dimensions					

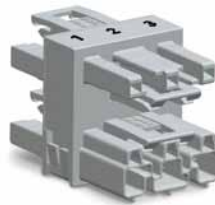






- ① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
 - ② 5.0 mm Ø, 0.2 – 1.2 mm plate thickness
 - ③ 6.0 mm Ø, 1 – 2.5 mm plate thickness
-
- gray Coding B (1 2 3)
 - light green Coding B (1 2 3)
 - pink Coding B (1 2 3)
- For additional pole marking,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

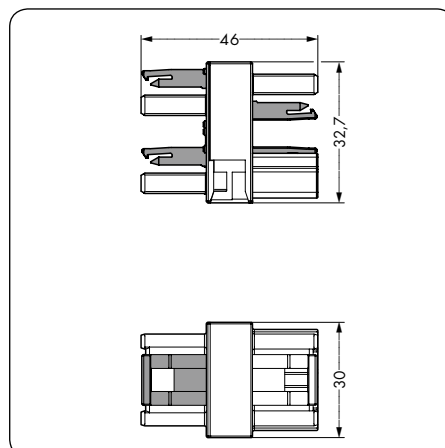
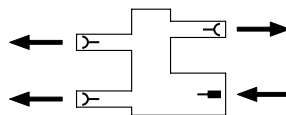


Distribution Connectors, 3-Pole

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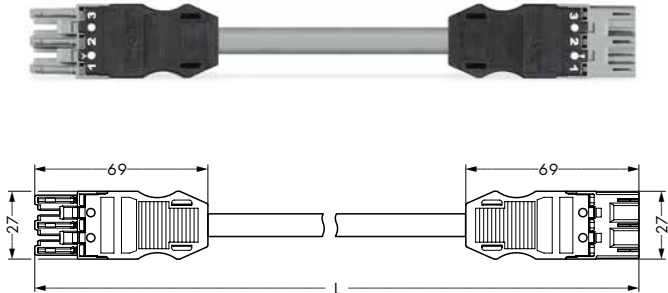
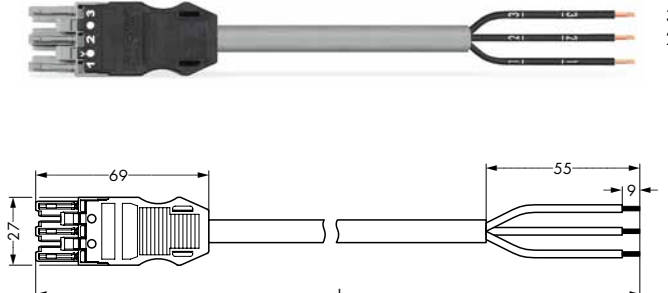
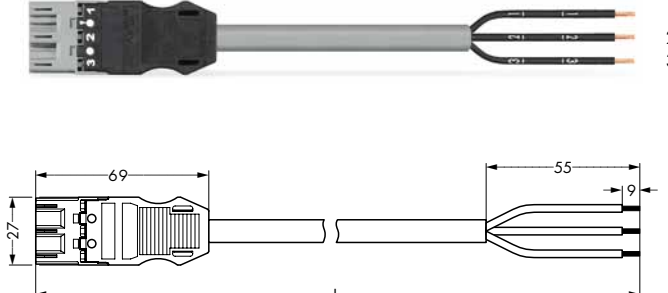


Description	Color	Item No.	Pack. Unit
Distribution connectors, 3-pole	Distribution connector, 3-way, 1 x plug / 3 x socket		
	gray	770-1714	50
	light green	770-1715	50
	pink	770-1716	50
	For additional pole marking, see page 227.		
Item-Specific Accessories			
	Mounting plate, for distribution connectors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



4 WINSTA® MIDI special Cable Assemblies 3 x 1.5 mm²

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	<p>PVC Control line: 3 x 1.5, gray</p> <p>250 V/4 kV/3 I_N 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>771-9993/006-103</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</p> <p>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																										
●	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																										
<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>771-9993/206-103</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																										
●	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																										
<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
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Cable Assemblies 3 x 2.5 mm²

		PVC	Control line: 3 x 2.5, gray		
		250 V/4 kV/3 I _N 20 A			
		Conductor ends, bonded: 9 mm			
		① Approvals			
Interconnecting cable, socket – plug		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	
Connecting cable, socket – free end		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	
Connecting cable, plug – free end		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 mm², 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 mm² 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 mm² ❶ 400 V/6 kV/3 I_N 25 A ❸</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>	<p>2 x 0.5 – 4 mm² ❶ 400 V/6 kV/3 I_N 25 A ❸</p> <p>9 mm / 0.35 in</p> <p>❷ Approvals</p>	<p>2 x AWG 20 – 12</p>
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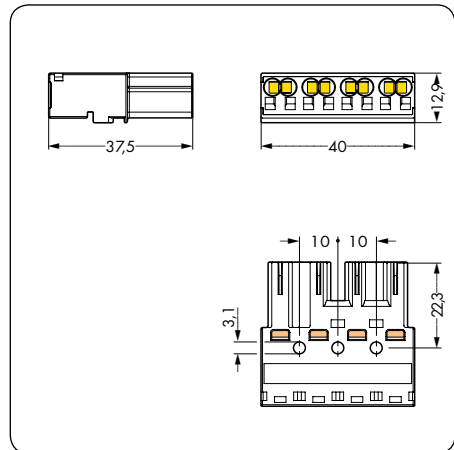
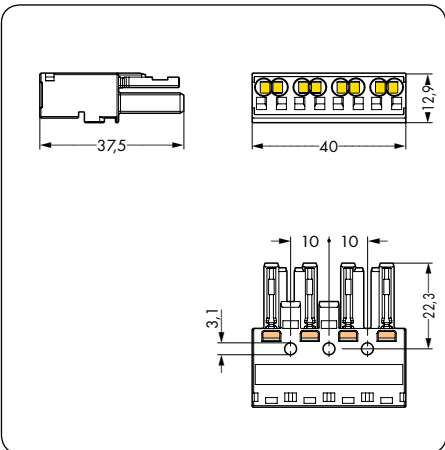
Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Pluggable connectors, 4-pole, with CAGE CLAMP®S connection	Socket without strain relief housing			Plug without strain relief housing		
	gray	770-244	50	gray	770-254	50
	gray	770-244/060-000*	50	gray	770-254/060-000*	50
	gray	770-244/062-000*	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									
		Strain relief housing, for 2 cables, 5 – 9 mm diameter				Strain relief housing, for 2 cables, 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
		Strain relief housing, for 2 cables, 9 – 13 mm diameter				Strain relief housing, for 2 cables, 9 – 13 mm diameter			
		black	770-504	50			black	770-504	50
		white	770-514	50			white	770-514	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)

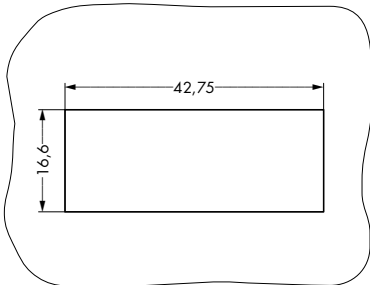
Info	Dimensions
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- ❶ Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "stranded"
 - ❷ For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.
 - ❸ Full rated current can only be applied to a maximum of 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

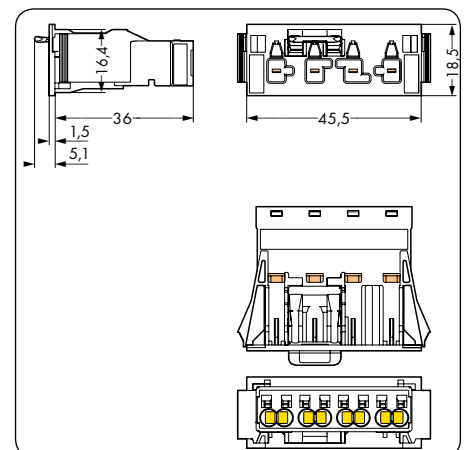
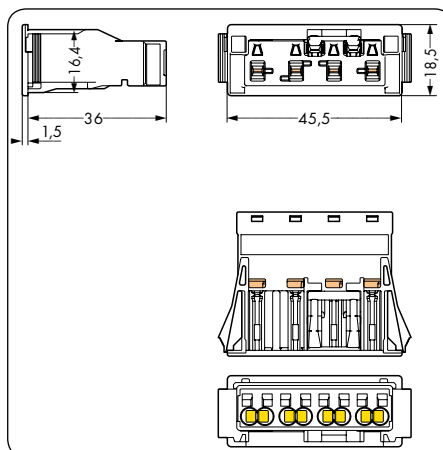
Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A ③	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A ③	2 x AWG 20 – 12
	 9 mm / 0.35 in ② Approvals		 9 mm / 0.35 in ② Approvals	



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
Dimensions						





	<p>400 V/6 kV/3 I_N 25 A ① ③</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I_N 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.

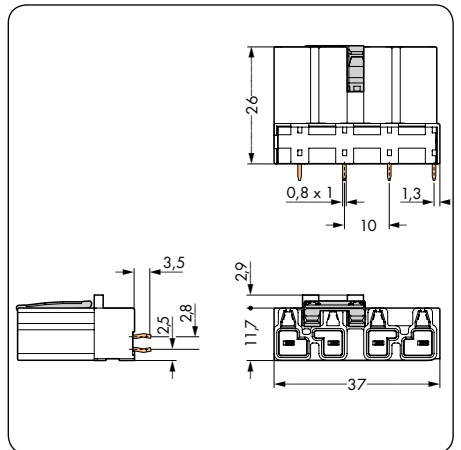
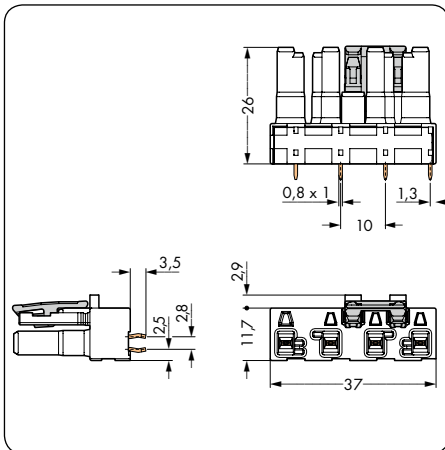
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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.



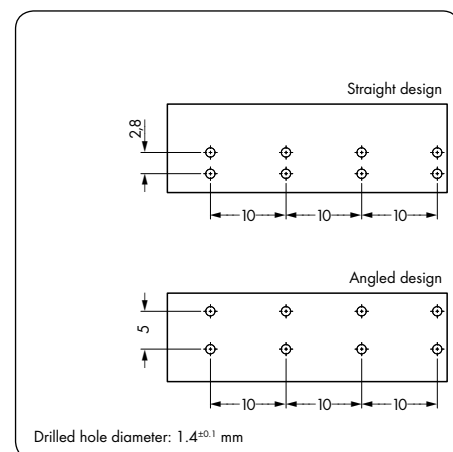
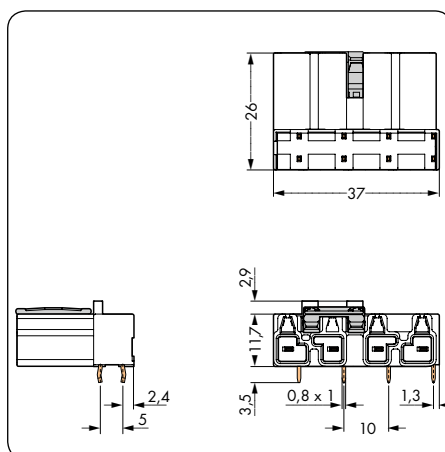
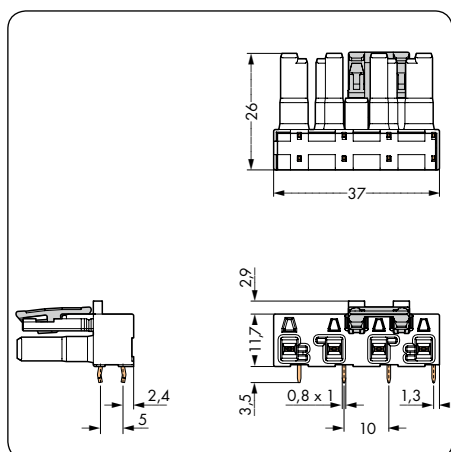
400 V/6 kV/3 I_N 25 A ① ③ ② Approvals	400 V/6 kV/3 I_N 25 A ① ③ ② Approvals
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① Nominal current depends on PCB track dimensions

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 ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
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.		
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)	
Dimensions			Hole patterns		



4 WINSTA® MIDI special

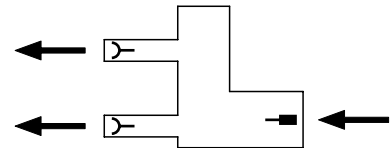
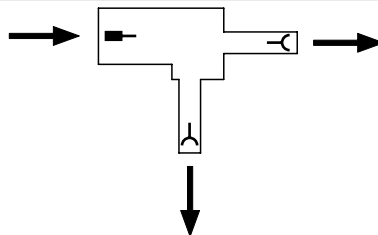
T- and h-Distribution Connectors, 4-Pole

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	<p>400 V/6 kV/3 I_N 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_N 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.			
Item-Specific Accessories						
	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	
Info	Dimensions					



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

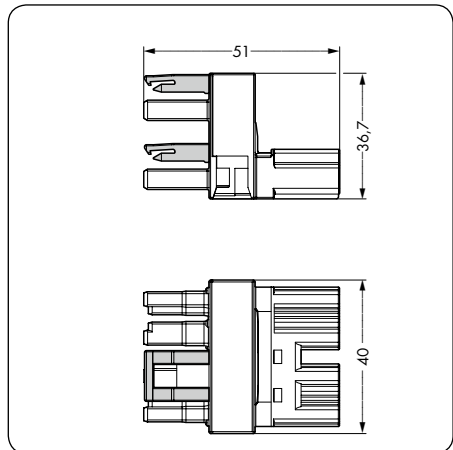
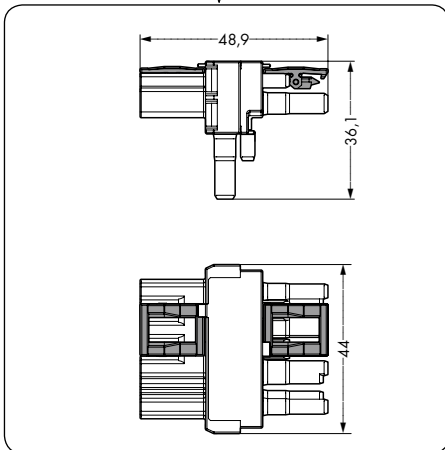
③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

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

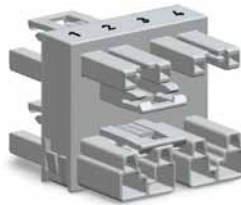
gray Coding B (1 2 3 4)
light green Coding B (1 2 3 4)
pink Coding B (1 2 3 4)





For additional pole marking, see page 227.

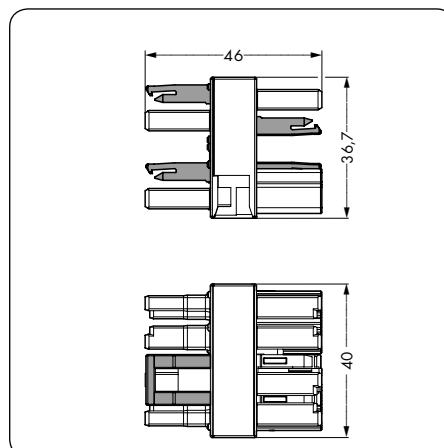
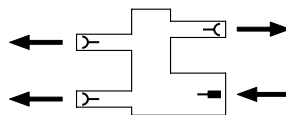
For coding information, see pages 224 to 226.
Fire load data available upon request.



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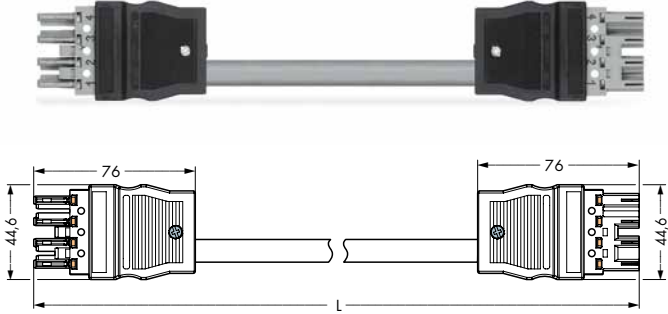
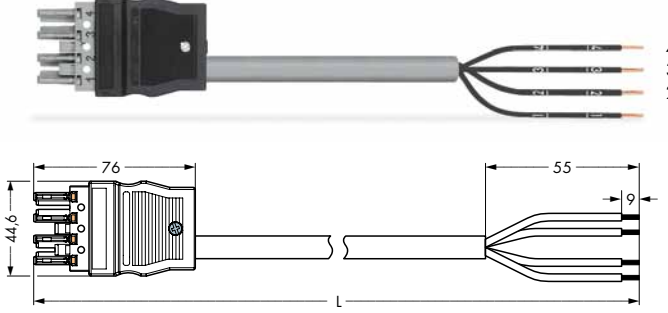
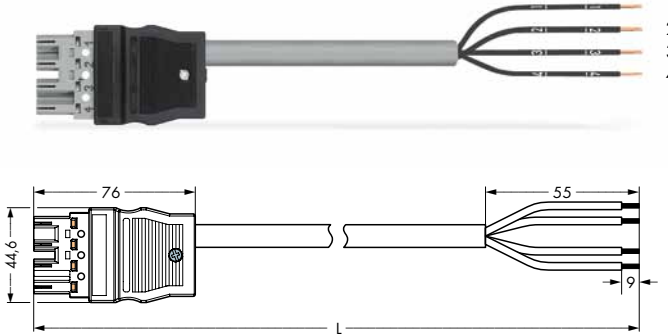














Description	Color	Item No.	Pack. Unit
Distribution connectors, 4-pole	Distribution connector, 3-way, 1 x plug / 3 x socket		
	gray	770-1734	50
	light green	770-1735	50
	pink	770-1736	50
	For additional pole marking, see page 227.		
Item-Specific Accessories			
	Mounting plate, for distribution connectors		
		black 770-624	25
		white 770-674	25
	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 plug, separable, 5-pole		
		yellow 770-360	100
	Dimensions		



4 WINSTA® MIDI special Cable Assemblies 4 x 1.5 mm²

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	<p>PVC Control line: 4 x 1.5, gray</p> <p>400 V/6 kV/3 I_N 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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●	3 m	771-8994/006-307																																															
●	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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●	3 m	771-8994/106-307																																															
●	5 m	771-8994/106-507																																															
<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>771-8994/206-103</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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	black	770-201	100																																														
	white	770-221	100																																														
	yellow	770-360	100																																														

Cable Assemblies 4 x 2.5 mm²

		PVC	Control line: 4 x 2.5, gray	
		400 V/6 kV/3 I _N 20 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
Interconnecting cable, socket – plug		Color	Length	Item No.
		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
Connecting cable, socket – free end		Color	Length	Item No.
		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
Connecting cable, plug – free end		Color	Length	Item No.
		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 mm², 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 mm² 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 mm² ❶ 2 x AWG 20 – 12 400 V/6 kV/3 I_N 25 A ❸</p> <p> 9 mm / 0.35 in ❷ Approvals</p>	<p>2 x 0.5 – 4 mm² ❶ 2 x AWG 20 – 12 400 V/6 kV/3 I_N 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	770-245	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						
	Strain relief housing, for 2 cables, ❹ 5 – 9 mm diameter ● black 770-505/023-000 25 ● white 770-515/023-000 25			Strain relief housing, for 2 cables, ❹ 5 – 9 mm diameter ● black 770-505/023-000 25 ● white 770-515/023-000 25		
	Strain relief housing, for 2 cables, ❹ 9 – 13 mm diameter ● black 770-505 25 ● white 770-515 25			Strain relief housing, for 2 cables, ❹ 9 – 13 mm diameter ● black 770-505 25 ● white 770-515 25		

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	Dimensions
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❶ Conductor sizes: 0.5 – 4 mm² "s + f-st"
 0.5 – 2.5 mm² "stranded"

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

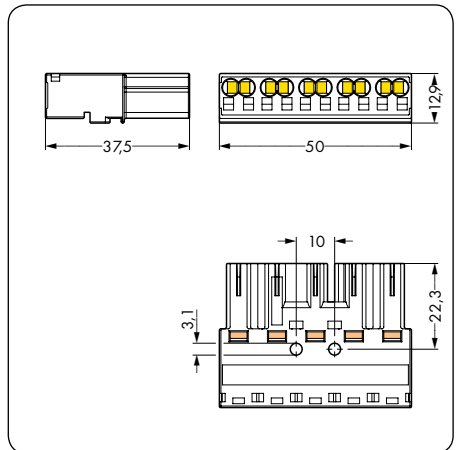
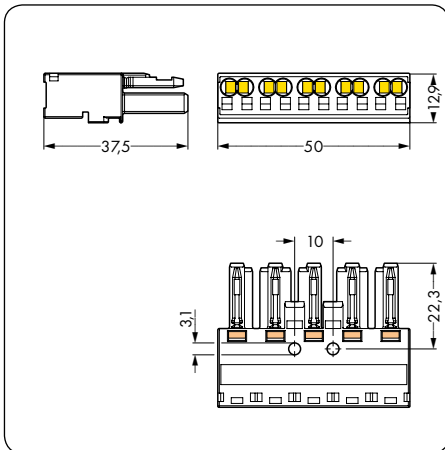
❸ Full rated current can only be applied to a maximum of 3 poles!

Standard printing (without suffix number)



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

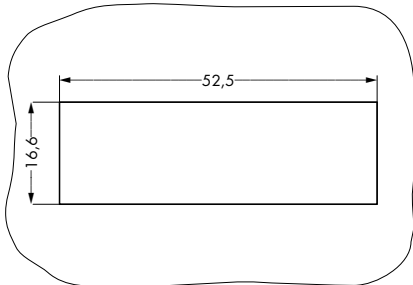
For additional pole marking, see page 227.

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







Snap-In Sockets and Plugs, 5-Pole

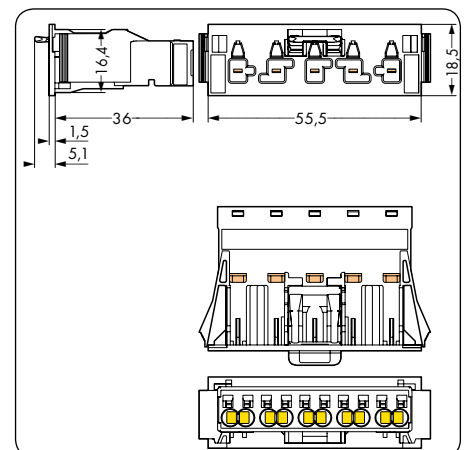
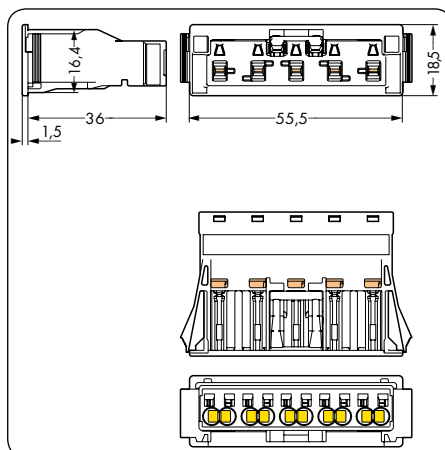
Cutout dimensions Plate thickness: 0.5 – 2 mm Cutout tolerance: + 0.1 mm	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A ③	2 x AWG 20 – 12	2 x 0.5 – 4 mm ² ① 400 V/6 kV/3 I _N 25 A ③	2 x AWG 20 – 12
	 9 mm / 0.35 in ② Approvals		 9 mm / 0.35 in ② Approvals	



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
Dimensions						



4 WINSTA® MIDI special




PCB Connectors, 5-Pole



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	<p>400 V/6 kV/3 I_N 25 A ① ③</p> <p>② Approvals</p>	<p>400 V/6 kV/3 I_N 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.

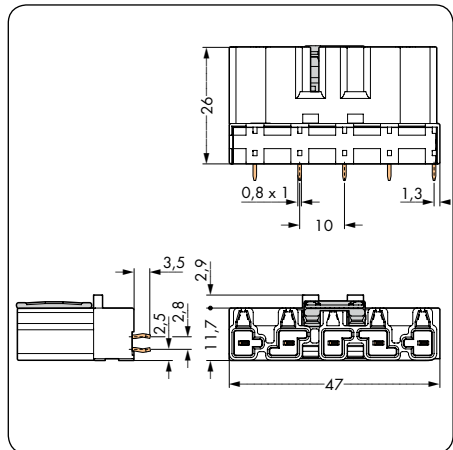
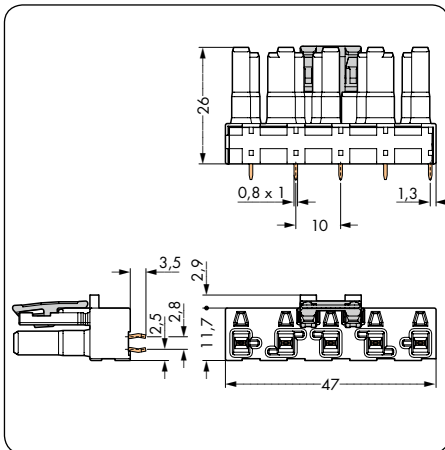
② For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

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.



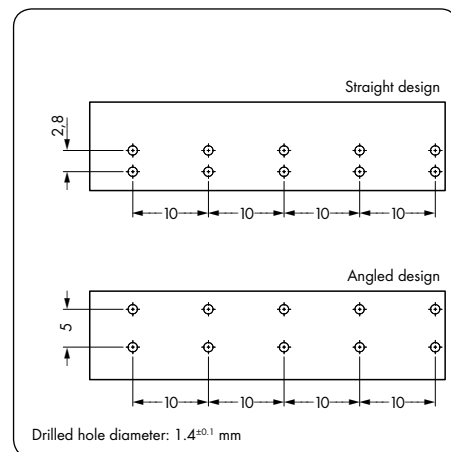
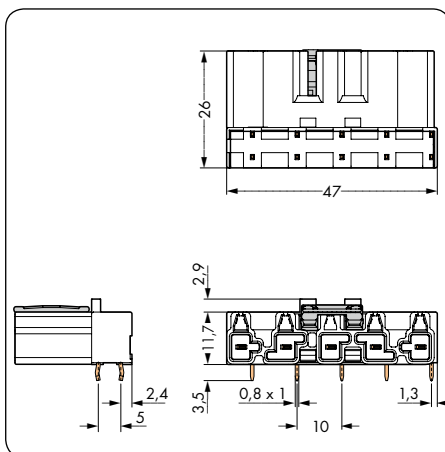
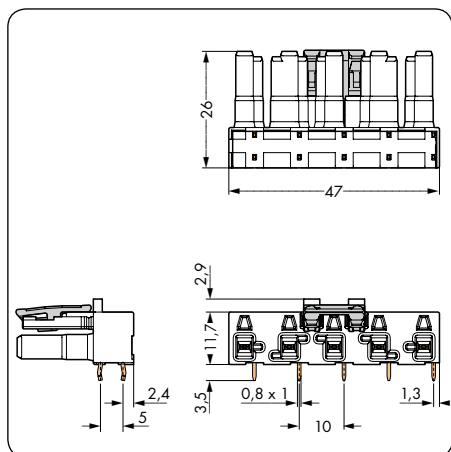
400 V/6 kV/3 I_N 25 A ① ③ ② Approvals	400 V/6 kV/3 I_N 25 A ① ③ ② Approvals
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① Nominal current depends on PCB track dimensions

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 ²
20 A	70 µm single side	7 mm / 0.27 in	△ 1.5 mm ²
25 A	105 µm both sides	7 mm / 0.27 in	△ 4 mm ²

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Socket, angled			Plug, angled		
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.		
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)	
Dimensions			Hole patterns		



4 WINSTA® MIDI special

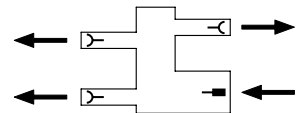
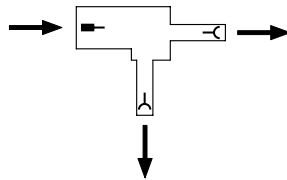
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T-Distribution Connectors and Distribution Connectors, 5-Pole

	<p>400 V/6 kV/3 I_N 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_N 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.		
Item-Specific Accessories						
	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	
Info	Dimensions					



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

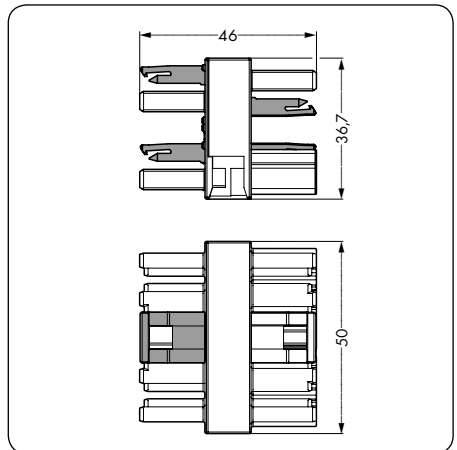
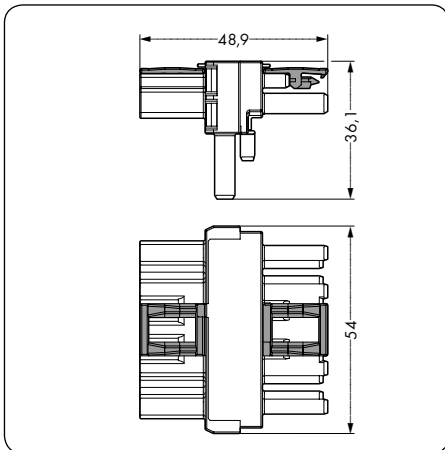
③ 6.0 mm Ø, 1 – 2.5 mm plate thickness

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.

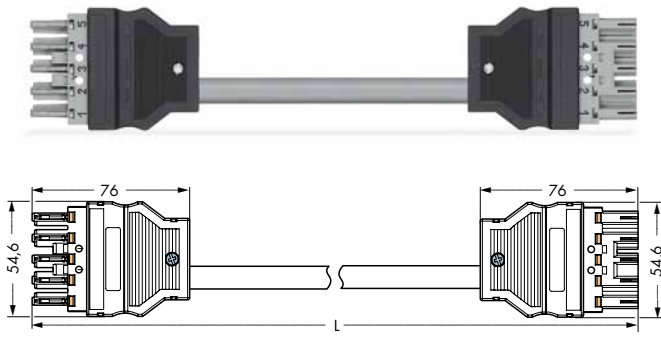
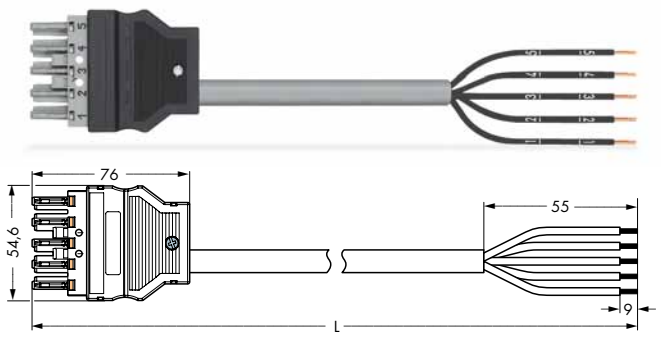
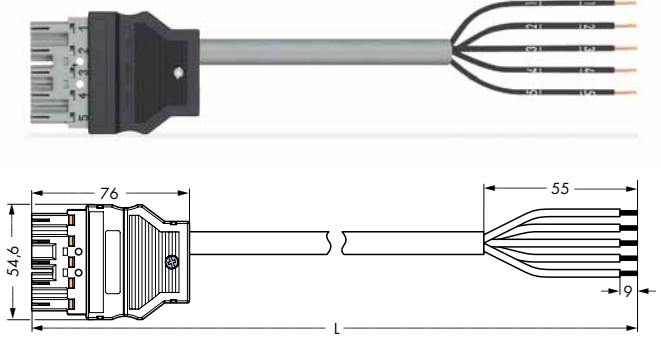












For coding information, see pages 224 to 226.
Fire load data available upon request.




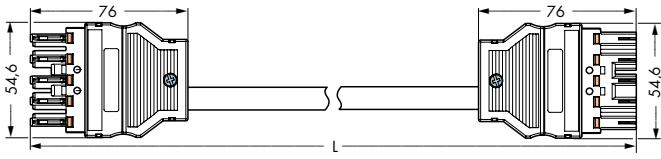

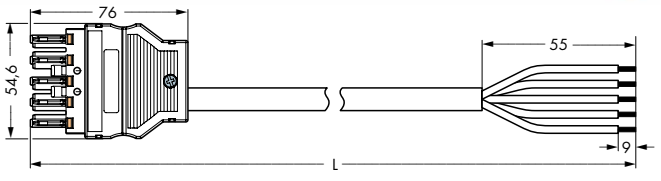

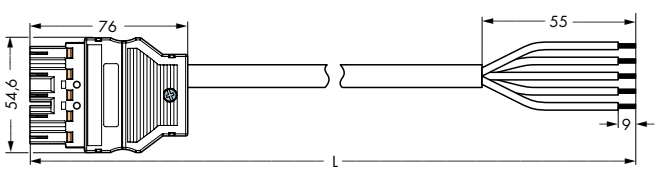


4 WINSTA® MIDI special Cable Assemblies 5 x 1.5 mm²

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	<p>PVC Control line: 5 x 1.5, gray</p> <p>400 V/6 kV/3 I_N 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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●	3 m	771-8995/006-307																																															
●	5 m	771-8995/006-507																																															
<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>771-8995/106-103</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/106-303</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/106-503</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/106-105</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/106-305</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/106-505</td></tr> <tr><td>●</td><td>1 m</td><td>771-8995/106-107</td></tr> <tr><td>●</td><td>3 m</td><td>771-8995/106-307</td></tr> <tr><td>●</td><td>5 m</td><td>771-8995/106-507</td></tr> </table>	●	1 m	771-8995/106-103	●	3 m	771-8995/106-303	●	5 m	771-8995/106-503	●	1 m	771-8995/106-105	●	3 m	771-8995/106-305	●	5 m	771-8995/106-505	●	1 m	771-8995/106-107	●	3 m	771-8995/106-307	●	5 m	771-8995/106-507																					
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●	3 m	771-8995/106-307																																															
●	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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●	3 m	771-8995/206-307																																															
●	5 m	771-8995/206-507																																															
<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
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	black	770-201	100																																														
	white	770-221	100																																														
	yellow	770-360	100																																														

Cable Assemblies 5 x 2.5 mm²

		PVC	Control line: 5 x 2.5, gray	
		400 V/6 kV/3 I _N 20 A ②		
		Conductor ends, bonded: 9 mm		
		① Approvals		
Interconnecting cable, socket – plug		Color	Length	Item No.
		black		
		Coding 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
Connecting cable, socket – free end		Color	Length	Item No.
		black		
		Coding 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
Connecting cable, plug – free end		Color	Length	Item No.
		black		
		Coding 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 mm², 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 mm² 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



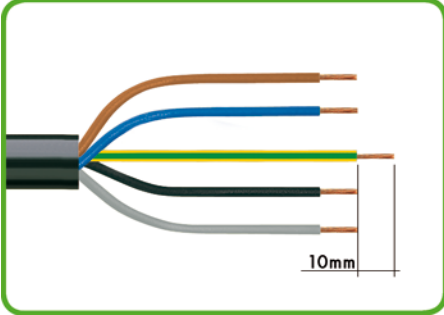
831 Series
Sockets, 5-Pole
Plugs, 5-Pole

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.

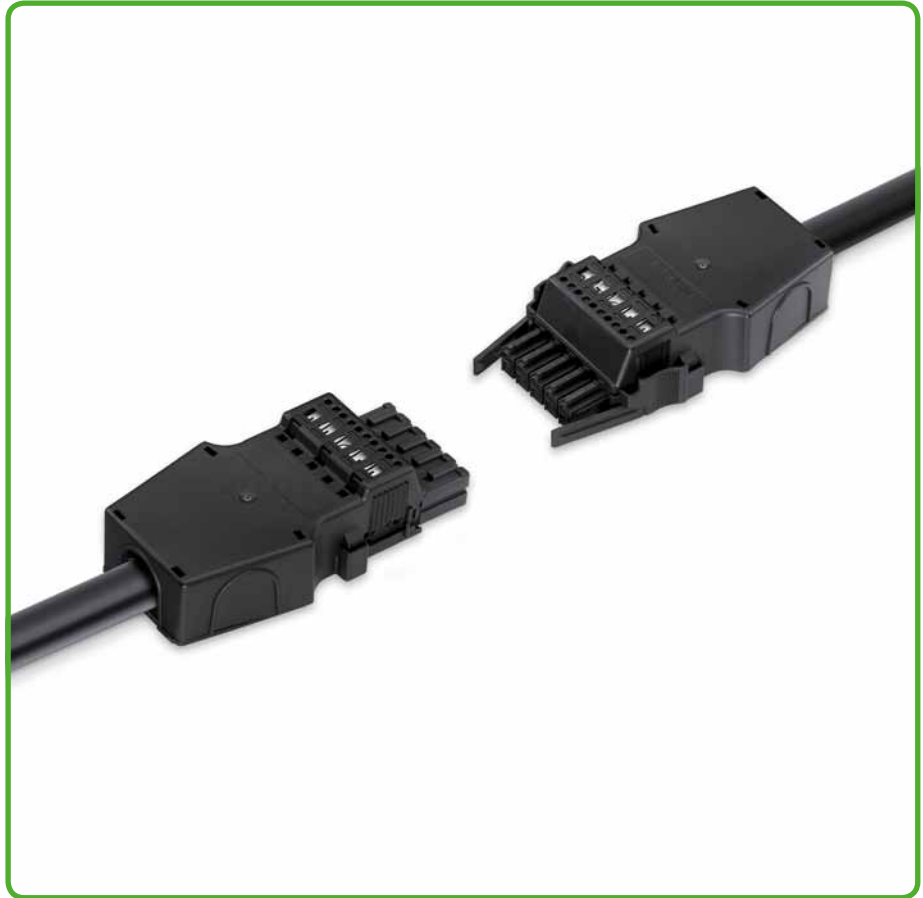
Strain relief installation



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 mm²
Cable Assemblies 3 x 2.5 mm²

180 - 181
 182



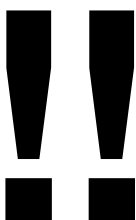
774 Series
Cable Assemblies 4 x 1.5 mm²

183



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

184




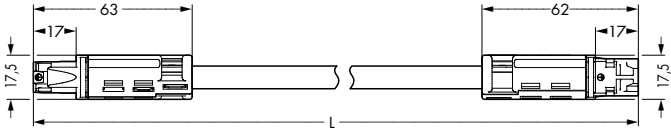



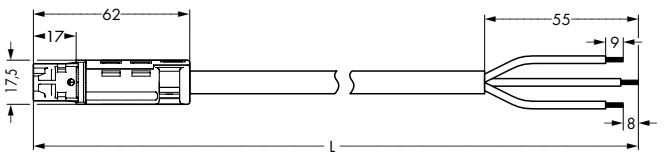
Important note:

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


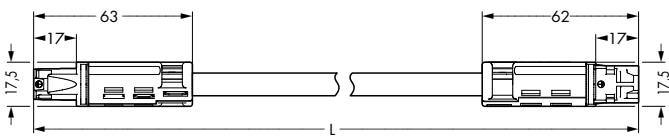

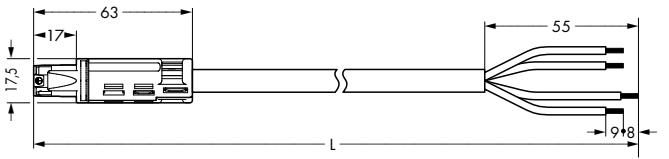

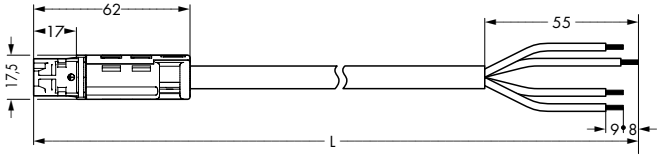
		PVC	H05VV-F 3G1.5	③ H05VV-F 3G2,5
		halogen-free	H05Z1 Z1-F 3G1.5	③ H05Z1 Z1-F 3G2,5
		250 V/4 kV/3 I _N 16 A		
		Conductor ends, bonded: 9 mm		
		① Approvals		
Interconnecting cable, socket with LL ② – plug		Length	Item No. black	Item No. white
		● ○ Coding A		
		PVC		halogen-free
		1 m	774-9993/006-101 .../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
Connecting cable, socket with LL ② – free end		Length	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
Connecting cable, plug – free end		Length	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
Adapter cable, socket RD – plug MIDI ③		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 mm²

<p>PVC H05VV-F 3x1.5 halogen-free H05Z1Z1-F 3x1.5</p> <p>250 V/4 kV/3 I_N 16 A</p> <p>Conductor ends, bonded: 9 mm</p> <p>① Approvals</p>																									
<p>Connecting cable, socket with LL ② – free end</p>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. black</th> </tr> </thead> <tbody> <tr> <td>● Coding S</td> <td></td> <td></td> </tr> <tr> <td>PVC</td> <td></td> <td>halogen-free</td> </tr> <tr> <td>1 m</td> <td>774-9973/106-105</td> <td>774-9973/116-105</td> </tr> <tr> <td>2 m</td> <td>774-9973/106-205</td> <td>774-9973/116-205</td> </tr> <tr> <td>3 m</td> <td>774-9973/106-305</td> <td>774-9973/116-305</td> </tr> <tr> <td>5 m</td> <td>774-9973/106-505</td> <td>774-9973/116-505</td> </tr> <tr> <td>7 m</td> <td>774-9973/106-705</td> <td>774-9973/116-705</td> </tr> </tbody> </table>	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
Length	Item No. black	Item No. black																							
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<p>Connecting cable, plug - free end</p>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. black</th> </tr> </thead> <tbody> <tr> <td>● Coding S</td> <td></td> <td></td> </tr> <tr> <td>PVC</td> <td></td> <td>halogen-free</td> </tr> <tr> <td>1 m</td> <td>774-9973/206-105</td> <td>774-9973/216-105</td> </tr> <tr> <td>2 m</td> <td>774-9973/206-205</td> <td>774-9973/216-205</td> </tr> <tr> <td>3 m</td> <td>774-9973/206-305</td> <td>774-9973/216-305</td> </tr> <tr> <td>5 m</td> <td>774-9973/206-505</td> <td>774-9973/216-505</td> </tr> <tr> <td>7 m</td> <td>774-9973/206-705</td> <td>774-9973/216-705</td> </tr> </tbody> </table>	Length	Item No. black	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
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PVC		halogen-free																							
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7 m	774-9973/206-705	774-9973/216-705																							
<p>Adapter cable, socket RD – plug MIDI</p>	<table border="1"> <thead> <tr> <th>Length</th> <th>Item No. black</th> <th>Item No. black</th> </tr> </thead> <tbody> <tr> <td>● Coding S</td> <td></td> <td></td> </tr> <tr> <td>PVC</td> <td></td> <td>halogen-free</td> </tr> <tr> <td>1 m</td> <td>774-9973/1506-105</td> <td>774-9973/1516-105</td> </tr> <tr> <td>2 m</td> <td>774-9973/1506-205</td> <td>774-9973/1516-205</td> </tr> <tr> <td>3 m</td> <td>774-9973/1506-305</td> <td>774-9973/1516-305</td> </tr> <tr> <td>5 m</td> <td>774-9973/1506-505</td> <td>774-9973/1516-505</td> </tr> <tr> <td>7 m</td> <td>774-9973/1506-705</td> <td>774-9973/1516-705</td> </tr> </tbody> </table>	Length	Item No. black	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
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<p>Info</p>																									
<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 _N 20 A Conductor ends, bonded: 9 mm ① Approvals				
Interconnecting cable, socket with LL ② – plug		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	774-9993/007-101	.../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
Connecting cable, socket with LL ② – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
		● ○ Coding A PVC halogen-free				
		1 m	774-9993/107-101	.../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
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	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
Info						
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 mm²

		PVC H05VV-F 4G1.5 halogen-free H05Z1Z1-F 4G1.5 250 V/4 kV/3 I _N 16 A Conductor ends, bonded: 9 mm ① Approvals				
Interconnecting cable, socket with LL ② – plug		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<input checked="" type="radio"/> Coding A <input type="radio"/> 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
Connecting cable, socket with LL ② – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<input checked="" type="radio"/> Coding A <input type="radio"/> 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
Connecting cable, plug – free end		Length	Item No. black	Item No. white	Item No. black	Item No. white
 		<input checked="" type="radio"/> Coding A <input type="radio"/> 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
Info						
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243. ② LL = Locking lever For other cables, please contact factory. <input checked="" type="radio"/> black Coding A (N ⊕ 2 1) <input type="radio"/> white Coding A (N ⊕ 2 1) For coding information, see pages 224 to 226. Fire load data available upon request.						







- 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



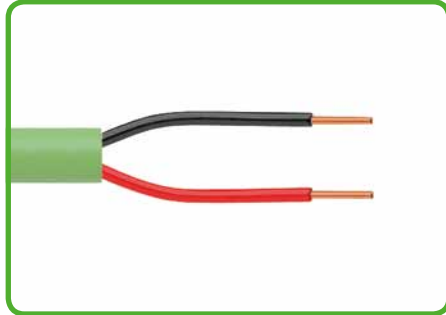
894 Series
Cable Assemblies, 2 x 0.8 mm Ø

192 - 193



7 Handling WINSTA® KNX, 893 Series

Preparation

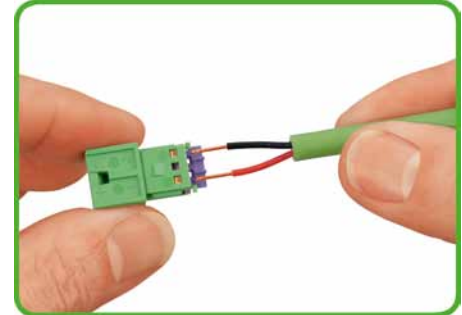


- 1. Strip length, outer insulation: = 23 mm
- 2. Strip length = 9 mm

Conductor termination

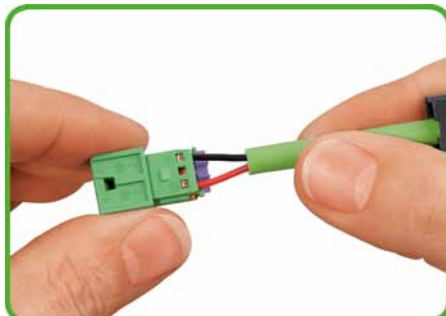


Prior to termination, pull the strain relief housing over the cable.

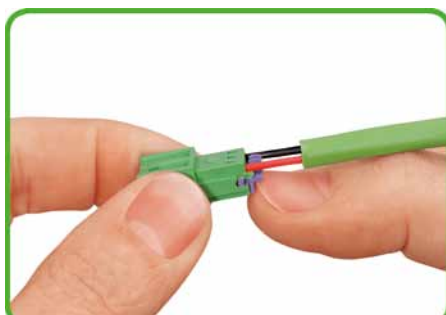


Insert stripped conductor directly into the conductor entry.

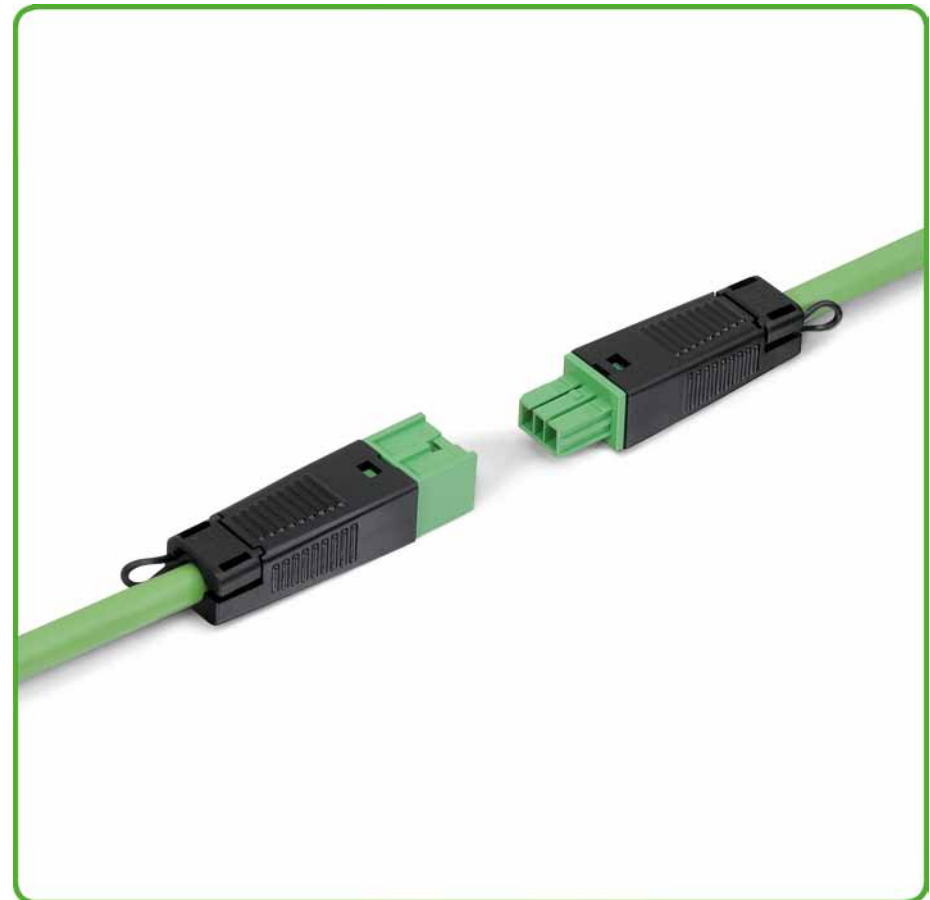
Conductor termination



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.

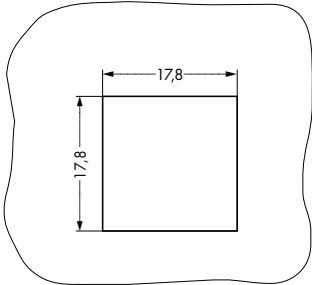


Press strain relief firmly on the cable.



Pre-assembled KNX connector.

<p>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_N 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_N 3 A</p> <p> 9 mm / 0.35 in</p> <p>📄 Approvals</p>
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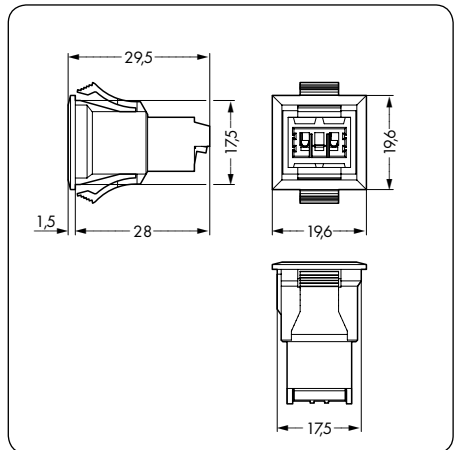
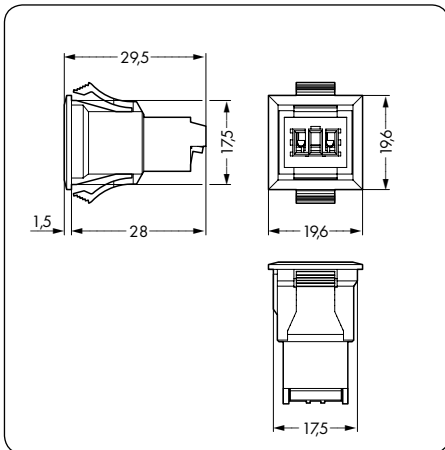


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Snap-in connectors, 2-pole, with spring clamp connection, T-distribution connectors	Socket, for KNX applications			Plug, for KNX applications		
	● green	893-2002	50	● green	893-2012	50
	Special coding:			Special coding:		
	○ light gray	893-2022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



T-Distribution Connectors, 2-Pole

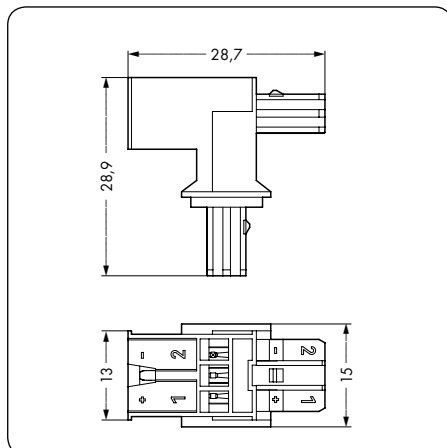
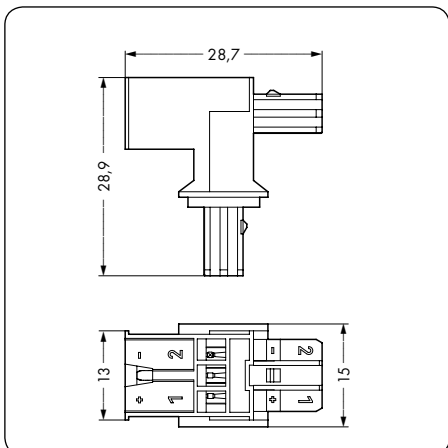
50 V/0.8 kV/3 I_N 3 A ① Approvals	50 V/0.8 kV/3 I_N 3 A ① Approvals
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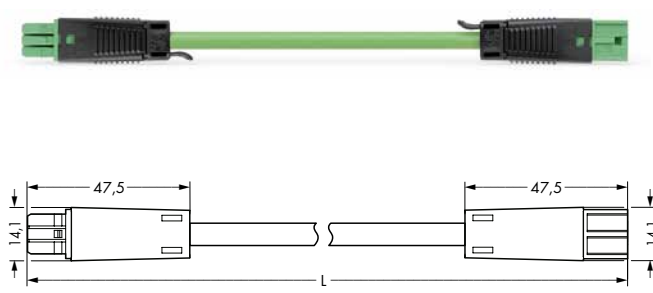
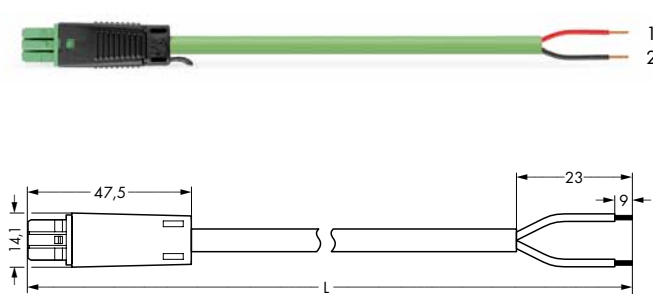
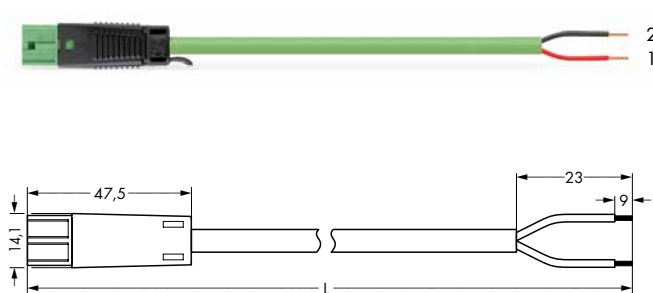


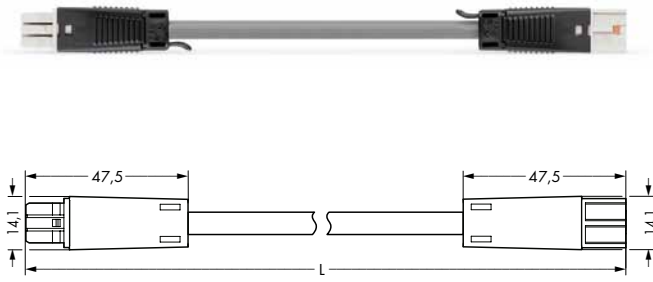
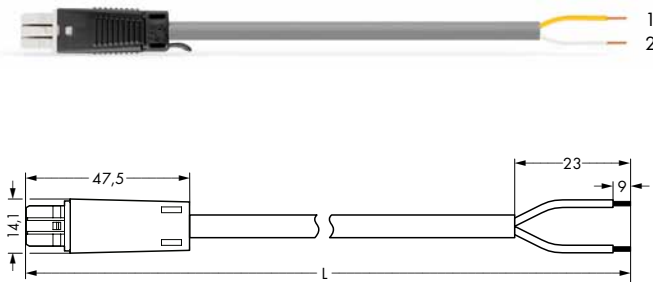
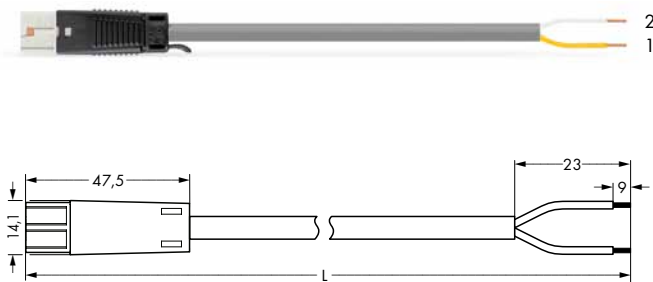
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
T-distribution connector, 1 x plug / 2 x socket, for KNX applications			T-distribution connector, 1 x plug / 2 x socket, with special coding		
● green	893-1606	25	○ light gray	893-1656	25
Dimensions					

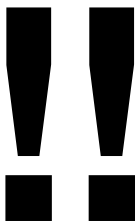
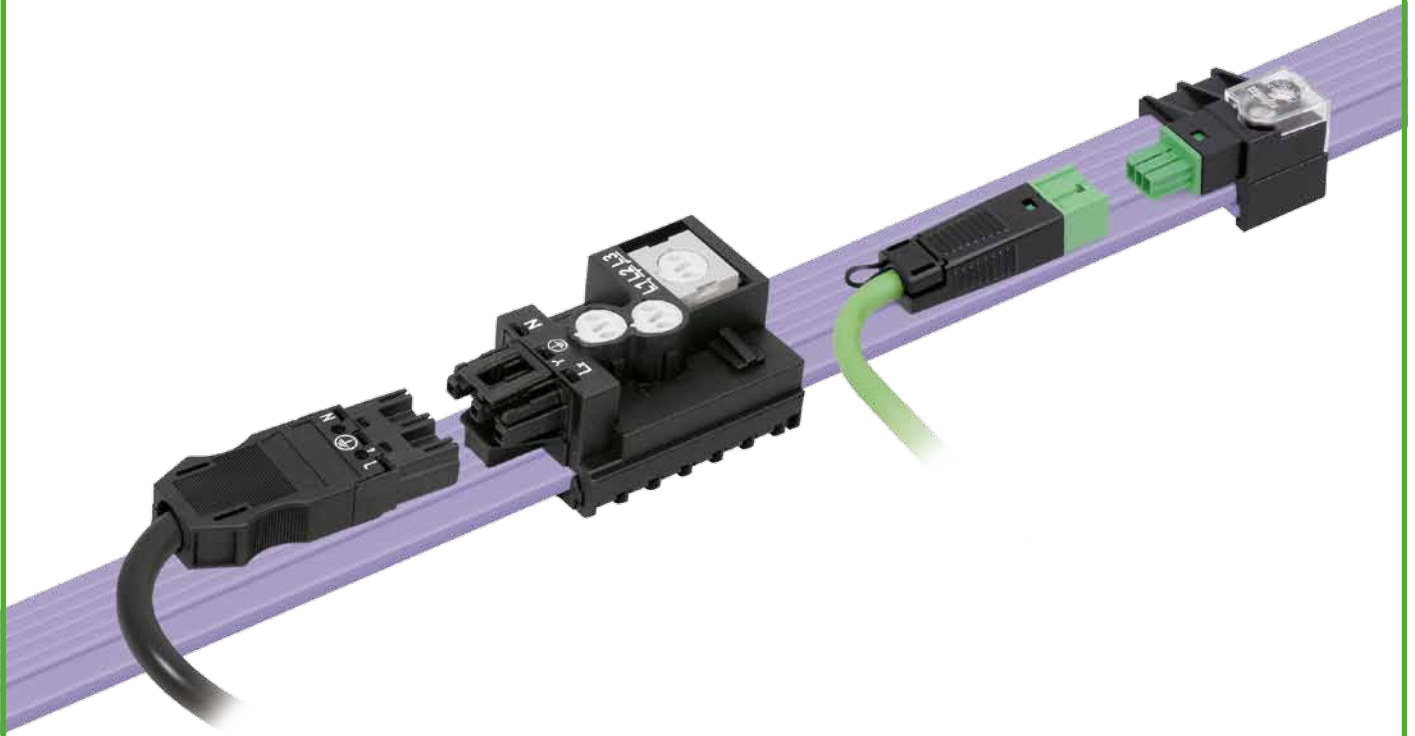


"Flying leads" using a T-distribution connector



	<p>PVC UNITRONIC BUS EIB 2x2x0.8</p> <p>50 V/0.8 kV/3 I_N 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.</p> <p>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_N 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 mm² / 5 x 4 mm² / 5 x 2.5 mm² + 2 x 1.5 mm²
 – Supply Module
 – Tap-Off Modules, WINSTA® MIDI Connectors

198
 199



893 Series
IDC Modules for Flat Cables
 5 x 2.5 mm² + 2 x 1.5 mm² / 2 x 1.5 mm²
 – 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 mm² Flat Cable
 – Supply and Tap-Off Modules

210, 211



895 Series
POWERBLOCK 10 for 5 x 10 mm² Flat Cable
 – Supply and Tap-Off Modules

212, 213



895 Series
POWERBLOCK 16 for 5 x 16 mm² Flat Cable
 – Supply and Tap-Off Modules

214, 215



897 Series
 Flat Cables 2 x 1.5 mm²
 Flat Cables 5 x 2.5 mm²
 Flat Cables 5 x 4 mm²
 Flat Cables 5 x 2.5 mm² + 5 x 1.5 mm²

208
 200
 201
 201, 204

8 Handling WINSTA® IDC, 772 Series

196

Module positioning and contacting



Insert flat cable into base (observe coding!).

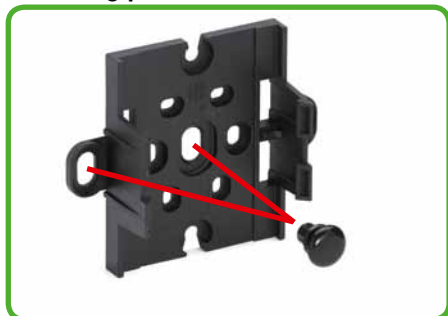


Mount IDC module flush with the base. Should the IDC module jam during mounting, turn the upper part by 180° and remount it.



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.

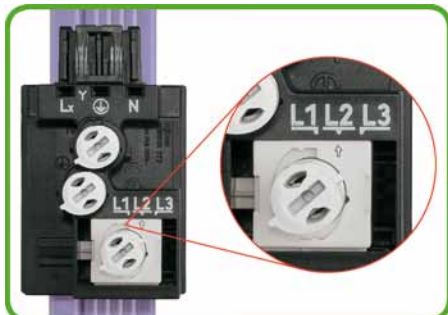
Snapping on distribution connector



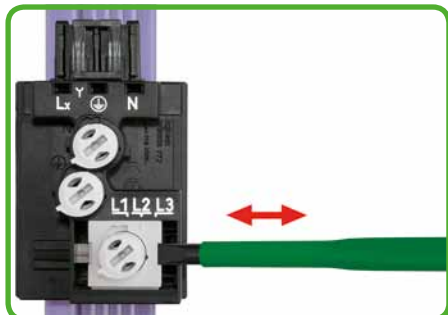
The distribution connectors snap together when attached to the mounting plate.



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.



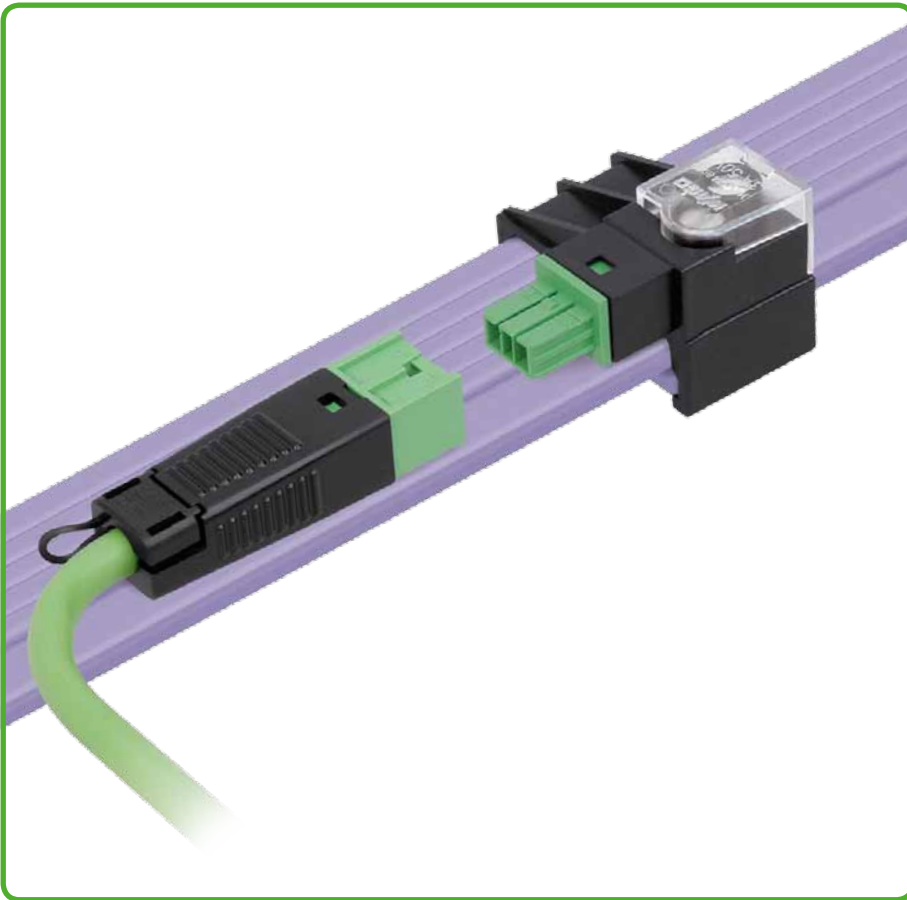
Connecting an installation cable to the supply module. Stripped, solid conductors are simply pushed into unit. Open clamp via screwdriver to insert stripped, fine-stranded conductors.



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 mm² ❶
400 V/6 kV/3
I_N 25 A

2 x AWG 20 – 12

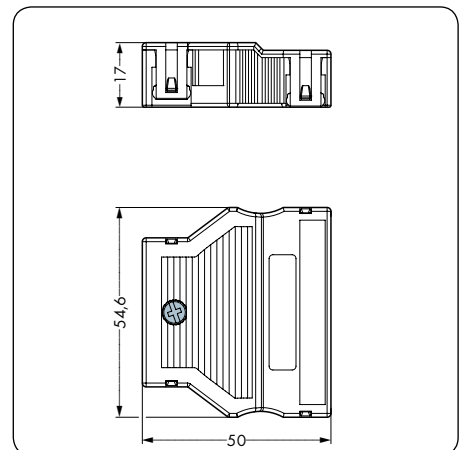
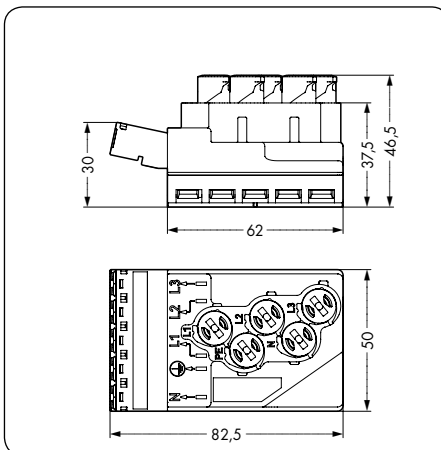
9 mm / 0.35 in

❷ Approvals



Description	Color	Item No.	Pack. Unit
Supply module, 5-pole	Supply module with strain relief housing ❸,		
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
	For flat cables, see pages 200 and 201		
Item-Specific Accessories			
	Mounting plate, for supply and tap-off modules		
		black 772-260	10
	Fixing pin, for mounting plates		
		❹ black 770-601	250
	Operating tool, with insulated shaft, (6.5 x 1.2) mm blade		
		green 210-636	1
Info	Dimensions		

- ❶ Conductor sizes: 0.5 – 4 mm² "s + f-st"
0.5 – 2.5 mm² "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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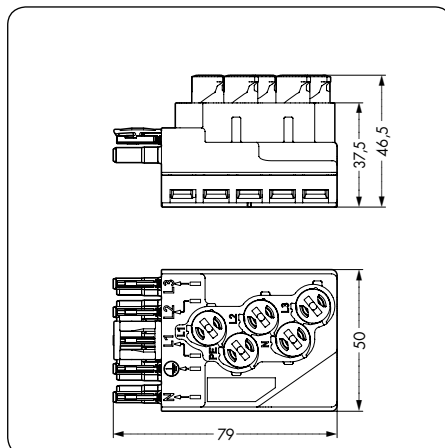
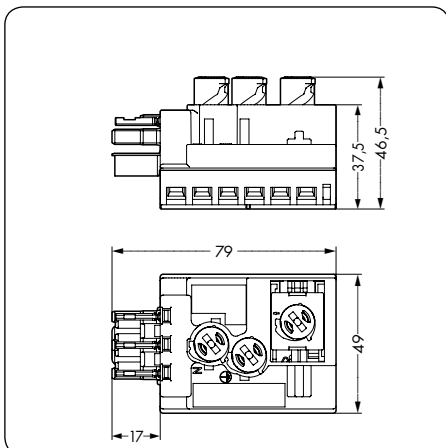


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Tap-off module with phase selection, 3-pole, WINSTA® MIDI plug-in and distribution connectors, supply position L2			Tap-off module, 5-pole, for WINSTA® MIDI plug-in and distribution connectors		
● black	772-263	10	● black	772-262	10
● gray	772-266/060-000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

Item-Specific Accessories

Mounting plate, for supply and tap-off modules  black 772-260 10	Mounting plate, for supply and tap-off modules  black 772-260 10
Fixing pin, for mounting plates  ④ black 770-601 250	Fixing pin, for mounting plates  ④ 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
Operating tool, with insulated shaft, (6.5 x 1.2) mm blade  green 210-636 1	Operating tool, with insulated shaft, (6.5 x 1.2) mm blade  green 210-636 1

Dimensions











897 Series Flat Cables 5 x 2.5 mm²

	<p>Flat cable 5 x 2.5 mm² 3L + N + PE halogen-free 0.6/1kV</p> <p>① Approvals</p>	<p>Flat cable 5 x 2.5 mm² 3L + N + PE PVC 0.6/1kV</p> <p>① Approvals</p>
--	--	---

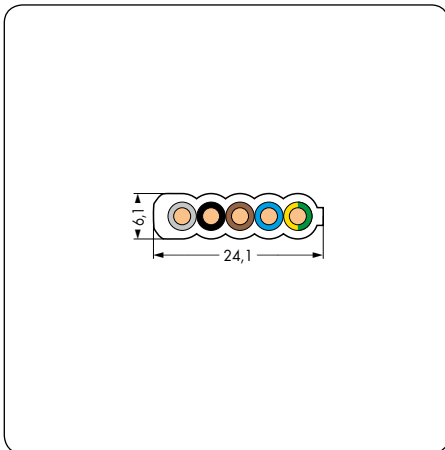
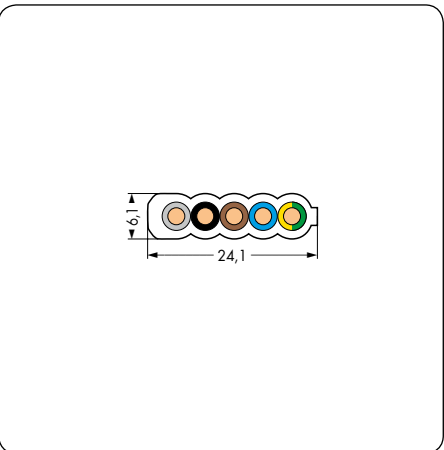


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cables, halogen-free or PVC, 5- and 7-pole	Flat cable 5 x 2.5 mm ² , halogen-free			Flat cable 5 x 2.5 mm ² , PVC		
	gray	897-252		light green	897-251	

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 mm² and 5 x 2.5 mm² + 2 x 1.5 mm²

<p>Flat cable 5 x 4 mm² 3L + N + PE halogen-free 0.6/1kV</p> <p>🔌 Approvals</p>	<p>Flat cable 5 x 2.5 mm² + 2 x 1.5 mm² 3L + N + PE + 2 Bus halogen-free 0.6/1kV</p> <p>🔌 Approvals</p>	<p>Flat cable 5 x 2.5 mm² + 2 x 1.5 mm² 3L + N + PE + 2 Bus PVC 0.6/1kV</p> <p>🔌 Approvals</p>
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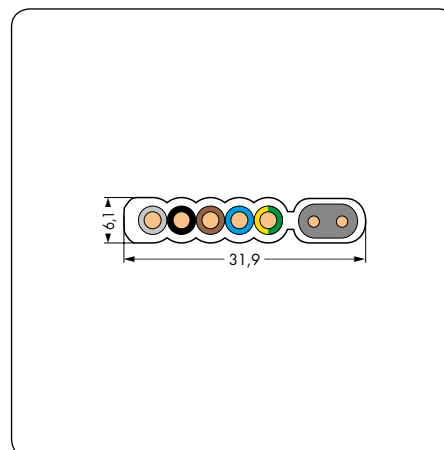
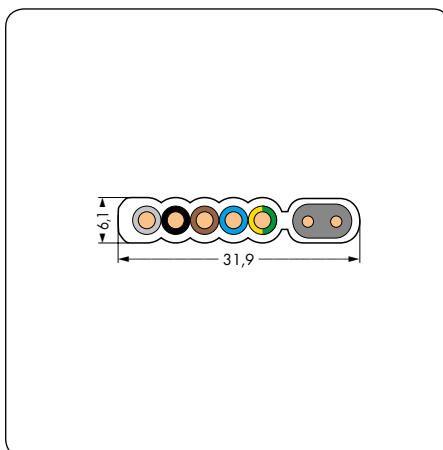
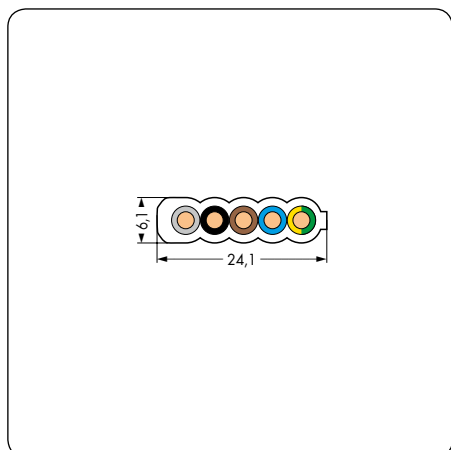


Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cable 5 x 4 mm ² , halogen-free			Flat cable 5 x 2.5 mm ² + 2 x 1.5 mm ² , halogen-free			Flat cable 5 x 2.5 mm ² + 2 x 1.5 mm ² , PVC		
black	897-453		violet	897-262		violet	897-261	

Item-Specific Accessories

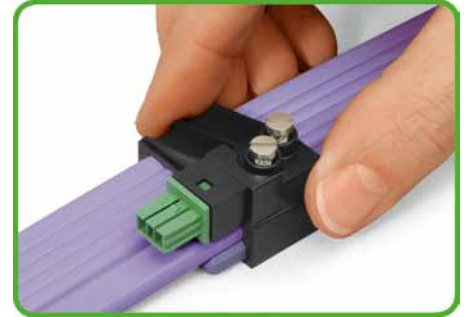
<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p> <p> transparent 897-250 10</p>	<p>Flat cable end cover, plastic. Every cable end must be fitted with an end cover.</p> <p> transparent 897-260 10</p>	<p>Flat cable end cover, plastic. Every cable end must be fitted 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



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

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

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Tap-off module, 2-pole, for connectors and cable assemblies, coding E, KNX, 1 Nm tightening torque			Tap-off module, 2-pole, for connectors and cable assemblies, coding F, 1 Nm tightening torque		
● green	893-262	25	○ light gray	893-269	25
For flat cables, see page 204			For flat cables, see page 204		

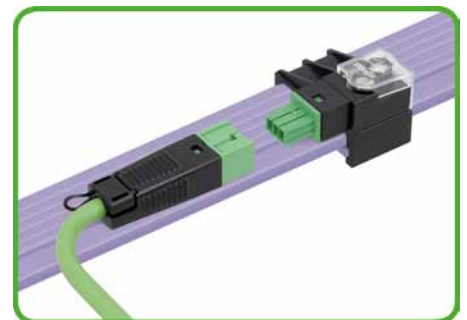
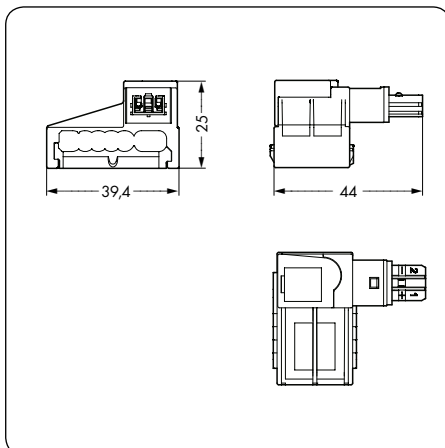
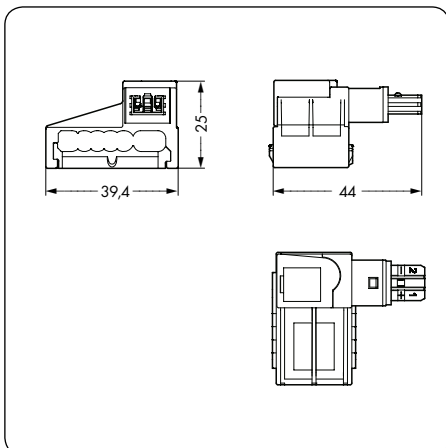


Contact is made with the flat cable by tightening the screws. Observe 1 Nm of tightening torque!



Snapping on transparent protective cover.

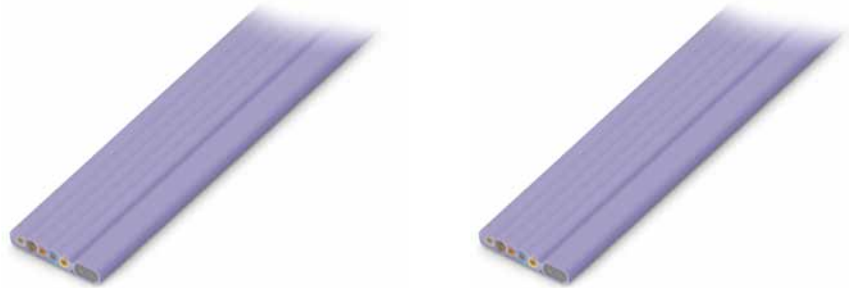
Dimensions





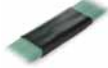
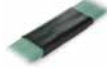






Connecting a cable assembly.

897 Series Flat Cables 5 x 2.5 mm² + 2 x 1.5 mm²

	<p>Flat cable 5 x 2.5 mm² + 2 x 1.5 mm² 3L + N + PE + 2 Bus halogen-free 0.6/1 kV</p> <p>📌 Approvals</p>	<p>Flat cable 5 x 2.5 mm² + 2 x 1.5 mm² 3L + N + PE + 2 Bus PVC 0.6/1 kV</p> <p>📌 Approvals</p>
--	--	---



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 ² + 2 x 1.5 mm ² , halogen-free			Flat cable 5 x 2.5 mm ² + 2 x 1.5 mm ² , 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.

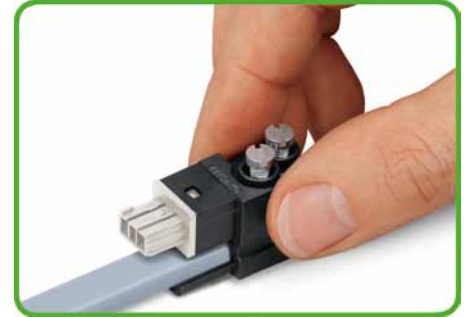


Fire load data available upon request.



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

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

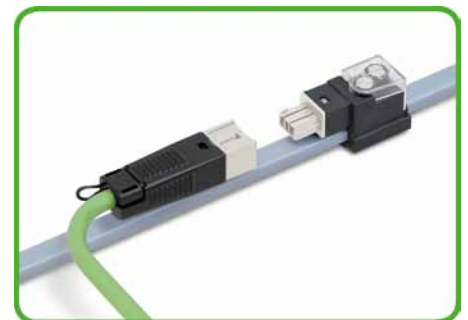
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Tap-off module, 2-pole, for connectors and cable assemblies, KNX, 1 Nm tightening torque			Tap-off module, 2-pole, for connectors and cable assemblies, 1 Nm tightening torque		
● green	893-122	50	○ light gray	893-129	50
For flat cables, see page 208			For flat cables, see page 208		
Dimensions					



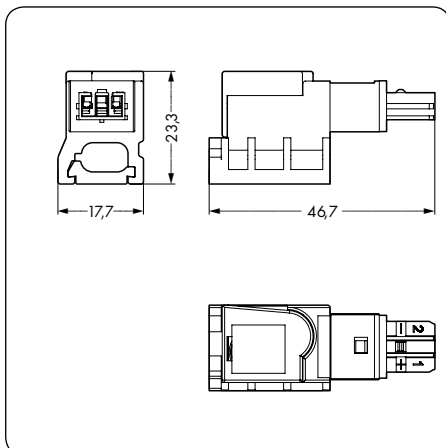
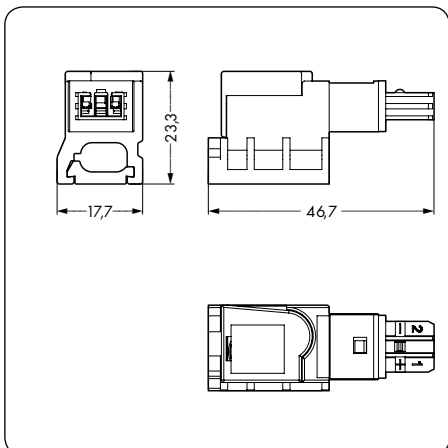
Contact is made with the flat cable by tightening the screws. Observe 1 Nm of tightening torque!



Snapping on transparent protective cover.



Connecting a cable assembly.













897 Series Flat Cables 2 x 1.5 mm²

	Flat cable 2 x 1.5 mm ² 2 Bus halogen-free 50 V ① Approvals	Flat cable 2 x 1.5 mm ² 2 Bus PVC 50 V ① Approvals
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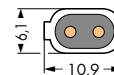
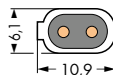


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Flat cables, halogen-free or PVC, 2-pole	Flat cable 2 x 1.5 mm ² , halogen-free			Flat cable 2 x 1.5 mm ² , PVC		
	gray	897-122		gray	897-121	

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			Stripping pliers  897-971 1		
	Cutter  897-972 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.





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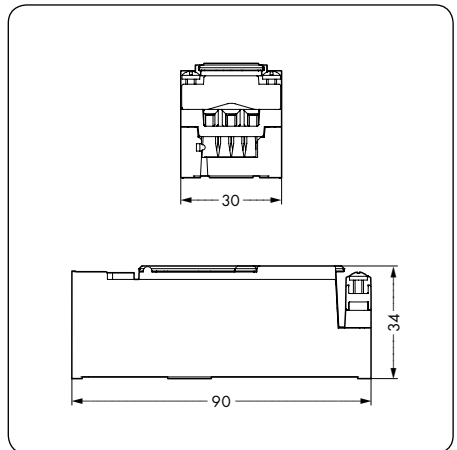
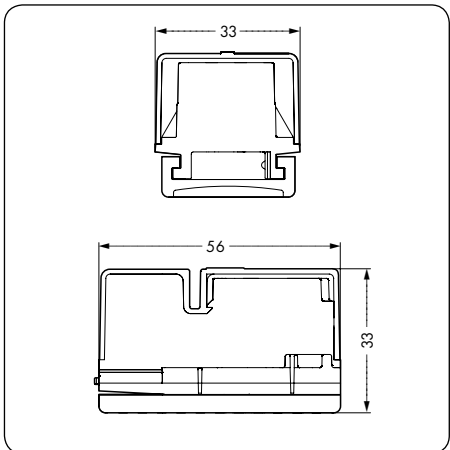


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Supply module for 3 x 2.5 mm ² flat cable, quick tap-off module for 3 x 2.5 mm ² flat cable, with screw connection						
	light gray	896-231	10	light gray	896-232	10
	Tightening torque: 0.7 Nm Phillips no. 1 screwdriver			Tightening torque: 0.7 Nm Phillips no. 1 screwdriver		
Info	Dimensions					

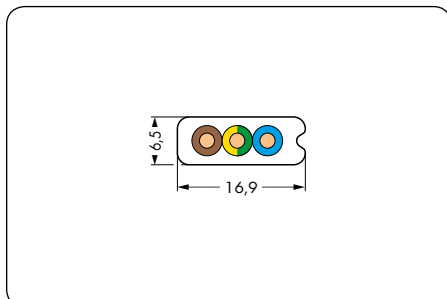
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Processing temperature: +5°C to +40°C

Fire load data available upon request.



	Flat cable 3 x 2.5 mm² 250 VAC 1 Approvals
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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 ²	Flat cable 3 x 2.5 mm ² , PVC, L + N + PE light gray	897-231	
	Flat cable 3 x 2.5 mm ² , halogen-free, L + N + PE light gray	897-232	



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	897-230	10
	Insulating tape for flat cables, for sealing contact holes in flat cables. black	897-900	10
	Fixing clamp, for screw mounting dark gray	897-839	200 (8x25)
	Stripping pliers. Remove 17mm of the conductor insulation.	897-931	1
	Cutter	897-972	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 ²		
	black	896-233	10
	white	896-234	10
For other lengths, please contact factory.			

POWERBLOCK 10 for 5 x 10 mm² Flat Cable

	5 x 10 mm ² 750 V/8 kV/3 I _N 57 A ① Approvals	5 x 4 mm ² 690 V/8 kV/3 I _N 32 A ① Approvals
--	--	---

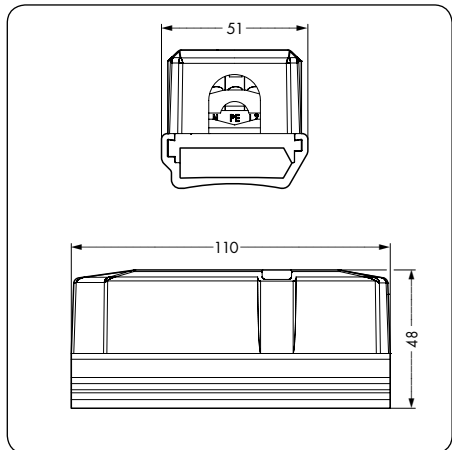
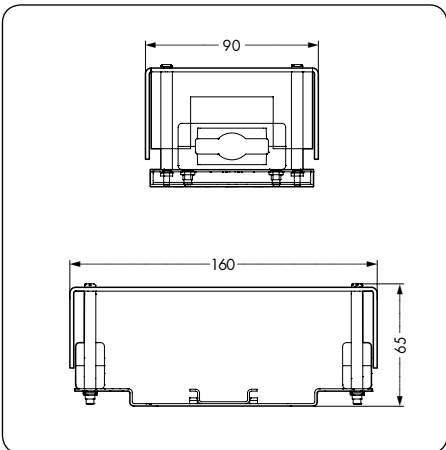


Description	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Supply module for 5 x 10 mm ² flat cable, with CAGE CLAMP®S connection				Tap-off module 5 x 4 mm ² , with spring clamp connection, for 5 x 10 mm ² flat cable		
Tap-off module with two outputs 5 x 4 mm ² , with CAGE CLAMP® connection	transparent	895-1051	2	transparent	895-1052	25
				Tightening torque: 0.7 Nm		
Info	Dimensions					

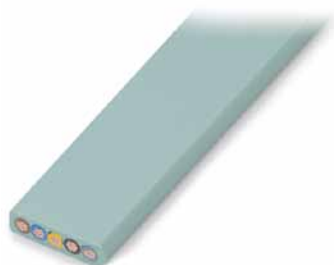
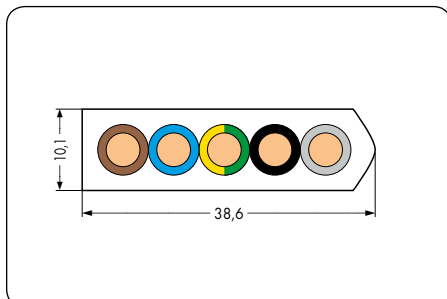
① For "International Certification Organizations" and "Approvals - User Guide," see pages 240 to 243.

Processing temperature: +10°C to +40°C

Fire load data available upon request.



	Flat cable 5 x 10 mm² 0.6/1 kV 1 Approvals
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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 ²	Flat cable 5 x 10 mm ² , PVC, 3L + N + PE		
	light green	897-1051	
	Flat cable 5 x 10 mm ² , halogen-free, 3L + N + PE		
	light green	897-1052	



Cut off outer insulation via cutter.

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



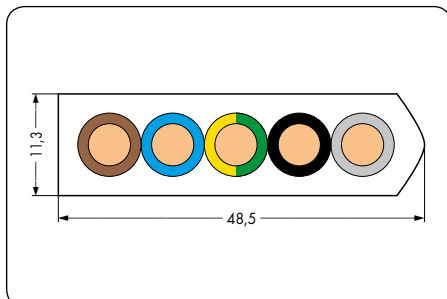
Push end cover fully onto the conductor ends.

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.





	Flat cable 5 x 16 mm² 0.6/1 kV 1 Approvals
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Description	Color	Item No.	Pack. Unit
Flat cable 5 x 16 mm ²	Flat cable 5 x 16 mm ² , PVC, 3L + N + PE		
	light gray	897-1651	
	Flat cable 5 x 10 mm ² , 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

218

Stripping Pliers, Cable Cutters, Stripping Knives

219

220



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 ² (AWG 2)	"Quickstrip 10" wire stripper 0.02 - 10 mm ² "f-st" (6 mm ² "s") Cutter for conductors up to 10 mm ² "f-st" (1.5 mm ² "s")	"Quickstrip 16" wire stripper 4 - 16 mm ² Cutter for conductors up to 10 mm ² "f-st" (1.5 mm ² "s")
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Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Cable cutter, for 0.25 - 35 mm ² wires (AWG 22 - 2)			"Quickstrip 10" wire stripper, for 0.02 - 10 mm ² fine-stranded conductors for 0.02 - 6 mm ² solid conductors			"Quickstrip 16" wire stripper, for all conductor types 4 - 16 mm ²		
green	206-118	1	black	206-124	1	black	206-125	1

Accessories		
"Standard" blade cassette, 0.02 - 10 mm ²		
	206-126	1
"Standard" blade cassette, 4 - 16 mm ²		
	206-128	1
"V" blade cassette, 0.02 - 4 mm ² 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

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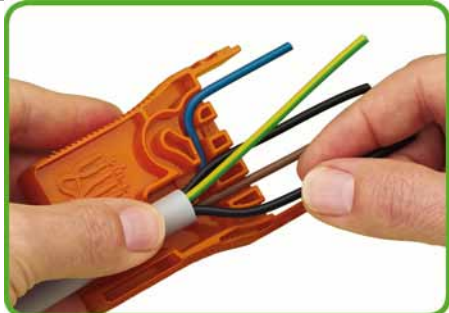
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Stripping pliers, with insulated handles			Cable cutter, with partially insulated handles			Stripping knife		
red	897-931	1	red	897-970	1	light gray	897-951	1
for flat cables 3 x 2.5 mm ²			for flat cables 5 x 10 mm ² 5 x 16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

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
Self-adhesive marking strips on DIN A4 cards, 182 mm long, white	
210-333	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	
210-334	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	888-414/101-3601 1



ZERTIFIKAT

Die Zertifizierungstelle
der TÜV Management Service GmbH
bestätigt, dass das Unternehmen

WAGO Kontakttechnik GmbH
(nach Schweizer Recht) & Co. KG
Werk 2
D-83700 Steinhilberstein
WAGO Contact SA
CH-1424 Doncaster
WAGO Contact Co. Inc.
F90947 Sparks, COG, Ohio

Erfüllt die Normen:
ISO 9001:2000
wird durch das Zertifikat Nr. 2007-12-16
mit Wirkung zum 2007-12-16
Zertifiziert. Gültig bis 2017-12-16

M. Hoyer
TÜV Management Service GmbH • TÜV 100 Straße • Zertifikat-Nr. 2007-12-16 • 70300 Merzig

WAGO Gesellschaften, Vertriebsniederlassungen und Vertretungen

WAGO Kontakttechnik GmbH Werk 1 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	WAGO Kontakttechnik GmbH Werk 2 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	WAGO Kontakttechnik GmbH Werk 3 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	WAGO Kontakttechnik GmbH Werk 4 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	WAGO Kontakttechnik GmbH Werk 5 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com
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Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
750-100-0000	750-100-0001	750-100-0002	750-100-0003	750-100-0004	750-100-0005
750-100-0006	750-100-0007	750-100-0008	750-100-0009	750-100-0010	750-100-0011
750-100-0012	750-100-0013	750-100-0014	750-100-0015	750-100-0016	750-100-0017
750-100-0018	750-100-0019	750-100-0020	750-100-0021	750-100-0022	750-100-0023

EG Richtlinien und CE-Markierung

Für Produkte der WAGO-1-D-Serie

73/23/EWG
Harmonisierungsrichtlinie
in der Niederspannungsrichtlinie
über die Harmonisierung der Vorschriften
für Niederspannungs- und
Trennungsschalter, die für
den Betrieb bei 50/60 Hz
und 1000 V für Wechselspannung
bestimmt sind.

89/24/EEG
EMV-Richtlinie
Über diese Richtlinie haben alle Anlagen
zu erfüllen und können selbstständig
in der EMV-Richtlinie (89/24/EEG) aufgeführt
werden. Diese Richtlinie ist die Grundlage für
die CE-Markierung von EMV-Richtlinien.
Die Hersteller der Anlagen oder Anlagen
komponenten müssen sicherstellen, dass die
Anlagen die Anforderungen der Richtlinie
erfüllen und die CE-Markierung anbringen.
Die CE-Markierung ist ein Zeichen für die
Konformität mit den Anforderungen der
Richtlinie.


90/27/EEG
Messungsinstrumente
Diese Richtlinie bezieht sich auf
komplexe Messinstrumente oder Anlagen,
die für die Messung von elektrischen
Größen vorgesehen sind, die den folgenden
Anforderungen entsprechen:
- Messungsinstrumente, die für die Messung
von elektrischen Größen vorgesehen sind,
die die CE-Markierung anbringen.

Die Hersteller der Anlagen oder Anlagenkomponenten müssen sicherstellen, dass die Anlagen die Anforderungen der Richtlinie erfüllen und die CE-Markierung anbringen. Die CE-Markierung ist ein Zeichen für die Konformität mit den Anforderungen der Richtlinie.

WAGO Vertriebsgebiete in Deutschland



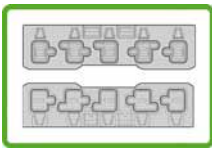
Vertriebsgebiet Nord WAGO Kontakttechnik GmbH Werk 1 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	Vertriebsgebiet Ost WAGO Kontakttechnik GmbH Werk 2 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	Vertriebsgebiet Süd WAGO Kontakttechnik GmbH Werk 3 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com	Vertriebsgebiet West WAGO Kontakttechnik GmbH Werk 4 D-83700 Steinhilberstein Tel: +49 89 22020-0 Fax: +49 89 22020-100 E-Mail: info@wago.com
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Die CE-Markierung bestätigt die Konformität der Produkte mit den Anforderungen der EG-Richtlinien.

WAGO Kontakttechnik GmbH & Co. KG
Werk 1
D-83700 Steinhilberstein

10



**Coding Overview
Pole Marking**

224 - 226
227



Your Questions – Our Answers

228 - 229



Technical Data

230 - 239

Item Number	Designation	Approved Date	Package	Current	Notes
204 000	000	24.10.2012/15.05.15	000	0A	1,5
204 001	001	27.04.2015	000	0A	0,5
204 002	002	04.08.2015	000	0A	0,5
204 003	003	04.08.2015	000	0A	0,5
204 004	004	04.08.2015	000	0A	0,5
204 005	005	04.08.2015	000	0A	0,5
204 006	006	04.08.2015	000	0A	0,5
204 007	007	04.08.2015	000	0A	0,5
204 008	008	04.08.2015	000	0A	0,5
204 009	009	04.08.2015	000	0A	0,5
204 010	010	04.08.2015	000	0A	0,5

Approvals – User Guide

240 - 243



Electrical Engineering Laboratory

244 - 245



Seminars

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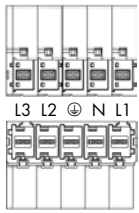

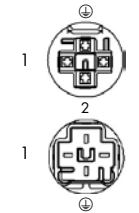
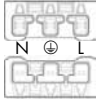
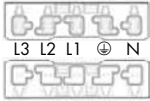





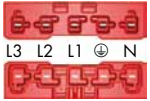
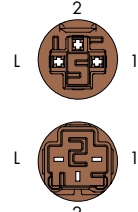
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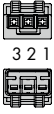



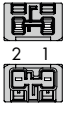

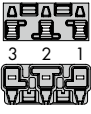

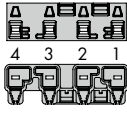

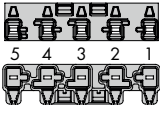







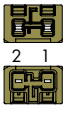

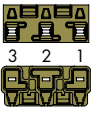

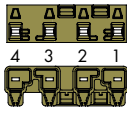

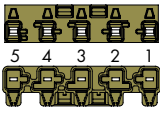







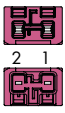

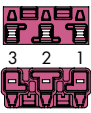

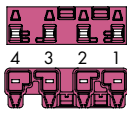

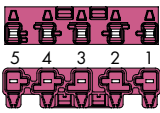

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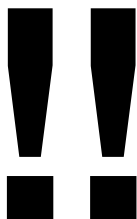
WAGO Worldwide Companies and Representatives

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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
Series	890/891	890/891	890/891	890/891	770/771	770/771	770/771	770/771
Coding A black white e.g., general applications	 N L	 N ⊕ L	 1L 2L ⊕ N	 3 2 1 ⊕ N	 N L	 N ⊕ L	 1L 2L ⊕ N	 L3 L2 L1 ⊕ N
Coding E green KNX applications								
Coding F light gray specialty coding								
Coding I , blue e.g., dimming	 - +			 + - L ⊕ N	 DA DA			 DA DA L ⊕ N
Coding L dark gray e.g., emergency power supply					 N' L'			 L' N' L ⊕ N
Coding P red e.g., computer applications (UPS)						 N ⊕ L		 L3 L2 L1 ⊕ N
Coding Q green "Clean Earth" applications							 L PE2 PE1 N	 L PE3 PE2 PE1 N
Coding R orange e.g., LON bus						 S LON LON		
Coding S 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
Series	831	774	774	893/894	893/894	772	772
Coding A black white e.g., general applications							
Coding E green KNX applications Coding F light gray specialty coding				 1+ 2- 	 1+ 2- 		
Coding I, blue e.g., dimming							
Coding L dark gray e.g., emergency power supply							
Coding P red e.g., computer applications (UPS)							
Coding Q green "Clean Earth" applications							
Coding R orange e.g., LON bus							
Coding S 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
Series	890/891	890/891	890/891		770/771	770/771/772	770/771	770/771/772
Coding 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 
Coding 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 
Coding 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 ⊕ ² L ¹ 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. 2.5mm² to 4mm² (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).

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
Clearances and creepage distances \geq 5.5mm
With strain relief \geq 6.5 mm to accessible surfaces (protection class II)

Rated current: Max. 16A, depending on conductor size

Conductor size: 0.25 - 1 mm² (AWG 22 - 18), solid, stranded and fine-stranded
1.5 mm² (AWG 16), solid and fine-stranded

Contact resistance: approx. 1 m Ω contact resistance
approx. 0.25 m Ω 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

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: 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

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

Mating and unmating forces: Mating force: approx. 20-70N (depending on number of poles)
(socket and plug) 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 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.

Rated voltage:	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)
Rated current:	Max. 16A, depending on conductor size
Conductor size:	0.25 - 1 mm ² (AWG 22-18), solid, stranded and fine-stranded 1.5mm ² (AWG 16), solid and fine-stranded
Contact resistance:	approx. 1 m Ω contact resistance approx. 0.25 m Ω 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 60320, LR, GL, DNV
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: 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
Mating cycles:	200, without resistive load 100, with resistive load $I_N = 16A$, tested (1.5mm ² /AWG 16)
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
Locking levers:	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).
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.

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 mm² (AWG 20–14), solid, stranded and fine-stranded
4mm² (AWG 12), solid and fine-stranded

Contact resistance: approx. 1 m Ω contact resistance
approx. 0.25 m Ω 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 mm²/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.

Rated voltage:	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
Rated current:	max. 25 A, depending on conductor size
Conductor size:	0.5–2.5 mm ² (AWG 20–14), solid, stranded and fine-stranded 4mm ² (AWG 12), solid and fine-stranded
Contact resistance:	approx. 1 m Ω contact resistance approx. 0.25 m Ω 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 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.
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 ² /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
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.

Rated voltage:400 V/6 kV/3 \triangleq IEC 60664Clearance and creepage distances ≥ 5.5 mm to exposed surfaces (Protection Category II)**Rated current:**

Max. 35A, depending on conductor size

Conductor size:0.5–4mm² (AWG 20–12), solid, stranded and fine-stranded
6mm² (AWG 10), solid and fine-stranded**Contact resistance:**approx. 1 m Ω contact resistanceapprox. 0.25 m Ω 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 $I_N = 35$ A, tested (6mm²/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: > 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 ≤ 85 °CPVC cable for temperatures ≤ 70 °C (including halogen-free)Insulating parts for temperatures ≤ 105 °C**General:**

First make/last break ground contacts

Fire load:

Please contact factory.

Rated voltage:	250 V/4 kV/3 \triangleq IEC 60664 Clearance and creepage distances ≥ 5.5 mm to exposed surfaces (Protection Category II)
Rated current:	max. 20 A, depending on conductor size
Conductor size:	1.5–2.5 mm ² (AWG 16–14), fine-stranded
Contact resistance:	approx. 1 m Ω contact resistance approx. 0.25 m Ω contact transition plug/socket
Approvals:	CCA certificate
Degree of protection:	With strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas)
Cable diameter:	3 x 1.5mm ² (AWG 16), 8.2 mm \varnothing (fixed) 3 x 2.5mm ² (AWG 14), 10 mm \varnothing 4 x 1.5mm ² (AWG 16), 9.2 mm \varnothing
Mating cycles:	200, without resistive load 100, with resistive load $I_N = 20$ A, tested (2.5mm ² /AWG 14)
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
Locking levers:	Sockets are factory-equipped with locking levers.
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 ≤ 85 °C PVC cable for temperatures ≤ 70 °C (including halogen-free) Insulating parts for temperatures ≤ 105 °C
General:	First make/last break ground contacts
Fire load:	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: 0.5mm^2 (AWG 20), solid

Contact resistance: approx. 3 m Ω 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:
(socket and plug) Mating force: approx. 10–15 N
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°C to $+40^{\circ}\text{C}$

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 $\leq 105^{\circ}\text{C}$

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 5.5mm

Rated current: max. 25 A, depending on conductor size

Conductor size: 0.5–2.5 mm² (AWG 20–14), solid, stranded and fine-stranded
4mm² (AWG 12), solid and fine-stranded

Contact resistance: approx. 1 m Ω contact resistance
approx. 0.25 m Ω 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 $I_N = 25A$, tested (4 mm²/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
 Underwriters Laboratories USA http://www.ul.com	UL	 Danmarks Elektriske Materielkontrol Dänemark http://www.demko.dk	DEMKO
 Underwriters Laboratories USA http://www.ul.com	UL	CENELEC CERTIFICATION AGREEMENT	
 Underwriters Laboratories USA http://www.ul.com	cURus	 CCA Danmarks Elektriske Materielkontrol Dänemark http://www.cenelec.org	CCA Zul.-Nr. mit DK
 Underwriters Laboratories USA http://www.ul.com	cULus	 SETI – FEMKO Sähkötarkastuskeskus Elinspektionscentralen Finnland http://www.seti.fi	
 Canadian Standards Association Kanada http://www.csa.ca	CSA	 Sähkötarkastuskeskus Elinspektionscentralen Finnland http://www.fimko.com	FIMKO
 VDE-Gutachten mit Fertigungsüberwachung Bundesrepublik Deutschland http://www.vde.de/vde/html/e/home.htm	VDE	SABS South African Bureau of Standards Süd-Afrika http://www.sabs.co.za	SABS
 VDE – Deutscher Verband für Elektrotechnik Bundesrepublik Deutschland http://www.vde.de		 RosTest Russland http://www.rostest.ru	ROSTEST
VDE VDE – Prüfbericht Bundesrepublik Deutschland		 Departamentul Moldovastandard Moldawien http://www.moldova.md/ro/government/oll/D_STAND/en/strcent2.htm	CSM
 Österreichischer Verband für Elektrotechnik Österreich http://www.ove.at	ÖVE	 Certificate of Registration Großbritannien http://www.astacertification.com	ASTA
 Schweizerischer Elektrotechnischer Verein Schweiz http://www.sev.ch/	SEV	 Rheinisch-Westfälischer Technischer Überwachungsverein e.V. Bundesrepublik Deutschland http://www.rwtuv.de	RWTÜV
 N.V. tot Keuring van Elektrotechnische Materialen Niederlande http://www.kema.nl	KEMA	 Elektrotechnick ý v ýskumn ý a projektov ý ústav Tschechien http://www.ezu.cz	EZU
CENELEC CERTIFICATION AGREEMENT		 Stowarzyszenie Elektrykow Polskich Polen http://www.bbj.pl	BBJ
 N.V. tot Keuring van Elektrotechnische Materialen Niederlande http://www.cenelec.org	CCA Zul.-Nr. mit NL	 Stowarzyszenie Elektrykow Polskich Polen http://www.sep.com.pl	SEP
 Norges Elektriske Materialkontroll Norwegen http://express.nemko.com	NEMKO		
 Svenska Elektriska Materielkontrollanstalten AB Schweden http://www.semko.com	SEMKO		

	Abbreviation for online search		Abbreviation for online search
CNET Centre National d'Etudes des Télécommunications Frankreich http://www.lannion.cnet.fr	CNET	 Robbanásbiztos Villamos Berendezések Ungarn http://www.bki.hu	BKI
LCIE Laboratoire Central des Industries Electriques Frankreich http://www.lcie.fr	LCIE	CB CB – TEST CERTIFICATE Indien http://www.ul-europe.com	CB
 Fyzikálne Technick ý Zkusební Ústav, Ostrava-Radvanice Tschechien http://www.ftzu.cz	FTZU	CB CB – TEST CERTIFICATE China http://www.ul-europe.com	CB
		 UL-International Demko A/S Dänemark http://www.ul-europe.com	ENEC
Shipbuilding approvals		Ex approvals	
 Germanischer Lloyd Bundesrepublik Deutschland http://www.gl-group.com	GL	 Physikalisch Technische Bundesanstalt Bundesrepublik Deutschland Ex e II http://www.ptb.de	PTB
BV Bureau Veritas Frankreich http://www.bureauveritas.fr	BV	 Underwriters Laboratories USA http://www.ul.com	cURus-EX
 Lloyd's Register of Shipping Großbritannien http://www.lloydsregister.com	LR	 N.V. tot Keuring van Elektrotechnische Materialien Niederlande http://www.kemaquality.com	KEMA-EX
 NV – Det Norske Veritas Norwegen http://www.dnv.com	DNV	GOSENERGO-Ex GOSENERGONADZOR Russland	GOSENER GO-EX
 Russian Maritime Register of Shipping GUS http://www.rs-head.spb.ru	RMR	 Fyzikálne Technick ý Zkusební Ústav, Ostrava-Radvanice Tschechien http://www.ftzu.cz	FTZU
 Polski Rejestr Statków Polen http://www.prs.pl	PRS	 Robbanásbiztos Villamos Berendezések Ungarn http://www.bki.hu	BKI-EX
 Korean Register of Shipping Korea http://www.krs.co.kr	KR		
ABS American Bureau of Shipping USA http://www.eagle.org	ABS		

Approvals – User Guide

Updated approvals can be found at www.wago.com



1: Select "Country" ①



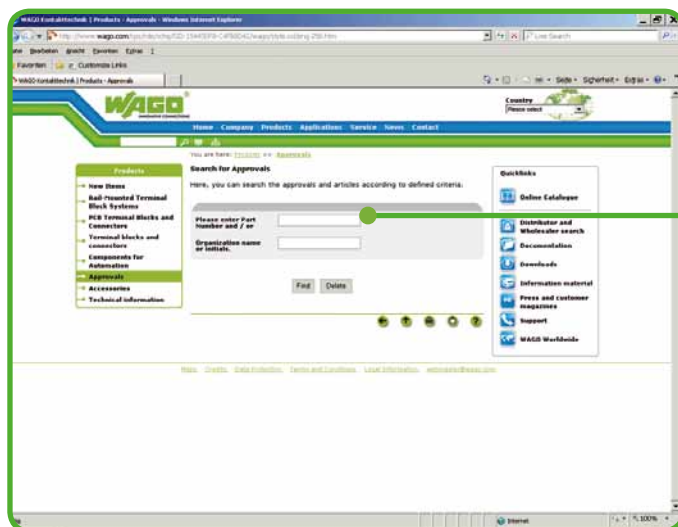
e.g., United Kingdom



2: Select "Products"



Select "Approvals"

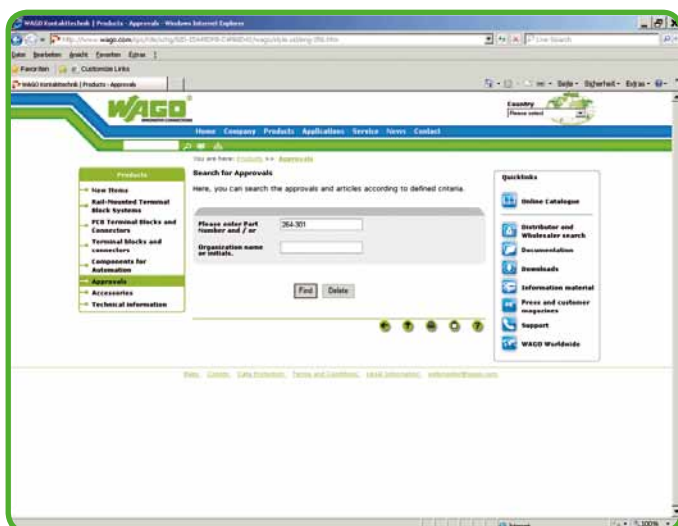


3: "Search for Approvals"



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 ²]
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 ²]
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 ²]
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

● **High-voltage test**



● **Vibration- and shock-resistance testing**



● **Visitor center**



● **Conductor retention force testing**

Deutsche
Gesellschaft für
Akkreditierung mbH  **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

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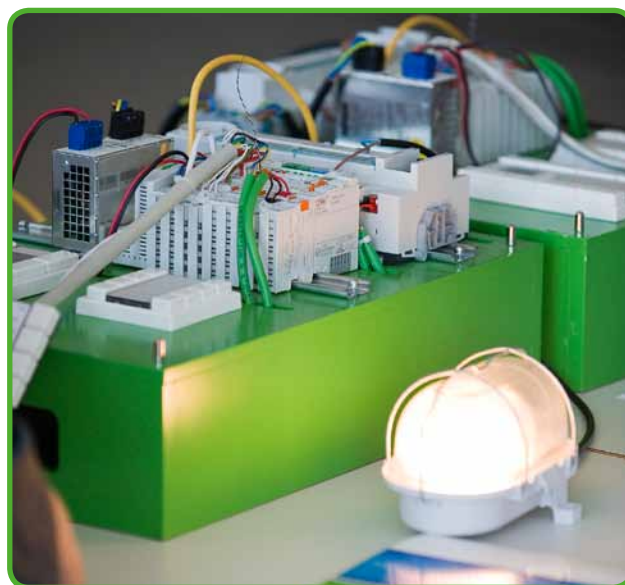
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*Special
company seminars*

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f.-e. = front-entry, s.-e. = side-entry

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Algeria
please contact WAGO France

Argentina
Bruno Schillig S.A.
Arenales 4030, B1604CFD
Florida, PBA
Phone +54 11 4730 1100
Fax +54 11 4761 7244
wago@schillig.com.ar

Australia
Kontakt Group
Building Automation & WINSTA Systems
Office: 730 Springvale Rd
Mulgrave Victoria 3170
P.O. Box 3003, Wheelers Hill VIC 3150
Tel. +61 03 95602757
Fax +61 03 95601727
sales@kontaktgroup.com.au

NHP ELECTRICAL ENGINEERING PRODUCTS PTY LTD
43-67 River Street
Richmond, Victoria, 3121, P.O. Box 199
Phone +61 3 9429 2999
Fax +61 3 9429 1075
export@wago.com

Austria
WAGO Kontakttechnik Ges.m.b.H.
Laxenburger Straße 244
1230 Wien
Phone +43 1 6150780
Fax +43 1 6150775
info.at@wago.com

Azerbaijan
AZ Technics LTD
Zulfu V. Alizade
Y.Safarov str.33 , AZ1025,
Baku
Republic of Azerbaijan
Tel. +994 12 4968335
Fax +994 12 4968334
info@AZtechnics.az

Belarus
UP FEK
pr-t Pushkina 29-B
220015 Minsk
Phone +375 17 2102189
Fax +375 17 2102189
wago@fek.by

Belgium
WAGO Kontakttechnik
Excelsiorlaan 11
1930 Zaventem
Phone +32 2 7179090
Fax +32 2 7179099
info-be@wago.com

Bosnia and Herzegovina
please contact WAGO Bulgaria

Brazil
WAGO Eletroeletrônicos Ltda
Rua Américo Simões 1470
São Roque da Chave
Itupeva SP Brasil 13295-000
Phone +55 11 4591 0199
Fax +55 11 4591 0190
info.br@wago.com

Bulgaria
WAGO Kontakttechnik GmbH & Co. KG
Business Center Serdika
2E Akad. Ivan Geshov Blvd.
Building 1, Floor 4, Office 417
1330 Sofia
Phone +359 2 489 46 09
Fax +359 2 928 28 50
info-BG@wago.com

Canada
please contact WAGO USA

Chile
Desimat Chile
Av Puerto Vespuccio 9670
Pudahuel Santiago
Phone +56 2 7470152
Fax +56 2 7470153
ventaschile@desimat.cl

China
WAGO ELECTRONIC (TIANJIN) Co. LTD
No.5, Quan Hui Road, Wuqing Development Area
Tianjin 301700
Phone +86 22 59617688
Fax +86 22 59617668
info-cn@wago.com

Columbia
T.H.L. Ltda.
Cra. 49 B # 91-33
Bogotá
Phone +57 1 621 85 50
Fax +57 1 621 60 28
ventas-thl@thl-ltda.com

Croatia
M.B.A. d.o.o. za trgovinu i zastupanje
Frana Supila 5
51211 Matulji HR
Phone +385 51 275-736
Fax +385 51 275-066
mba@ri.htnet.hr

Croatia
GENERA CTR d.o.o.
- just for automation technology -
Siget 18 b
10020 Zagreb
Phone +385 13647849
Fax +385 13636662
wago@geneza.hr

Czech Republic
WAGO Elektro spol. sr. o.
Rozvodova 1116/36
143 00 Praha 4 - Modřany
Phone +420 261 090 143
Fax +420 261 090 144
info.cz@wago.com

Denmark
WAGO Danmark
Filial af WAGO Kontakttechnik GmbH & Co. KG
Lejrvej 17
3500 Værløse
Phone +45 44 357777
Fax +45 44 357787
salg.dk@wago.com

Ecuador
ECUAINSETEC CIA LTDA
El Zurriago 177 y El Vengador
Quito
Phone +593 2 2 26 91 48
Fax +593 2 2 46 18 33
g.castro@ecuainsetec.com.ec

Egypt
IBN Engineering Instrumentation & Control
71 a El Shaheed Ahmed Hamdi St.
King Faisal, Giza
Phone +20 2 7214350
Fax +20 2 7221709
sales@ibnengineering.com

Estonia
Eltarko OÜ
Laki 14 - 502
10621 Tallinn
Phone +372 651 7731
Fax +372 651 7786
andres@eltarko.ee

Finland
WAGO Kontakttechnik GmbH & Co. KG
Filial i Finland
Vellamonkatu 30 B
00550 Helsinki
Phone +358 9 7744 060
Fax +358 9 7744 0660
tilaus@wago.fi

France
WAGO CONTACT SAS
Paris Nord 2
83 Rue des Chardonnerets
B.P. 55065 - Tremblay en France
95947 - ROISSY CDG CEDEX
Phone +33 1 48172590
Fax +33 1 48632520
info-fr@wago.com

Germany
WAGO Kontakttechnik GmbH & Co. KG
Postfach 28 80, 32385 Minden
Hansastraße 27
32423 Minden
Phone +49 571 887-0
Fax +49 571 887-169
info@wago.com

WAGO Kontakttechnik GmbH & Co. KG
Waldstraße 1
99706 Sondershausen
Phone +49 3632 659-0
Fax +49 3632 659-100
info@wago.com

Great Britain
WAGO Limited
Triton Park, Swift Valley Industrial Estate
RUGBY
Warwickshire, CV21 1SG
Phone +44 1788 568008
Fax +44 1788 568050
uksales@wago.com

Greece
PANAGIOTIS SP. DIMOULAS - BIOMAT
DIMOULAS AUTOMATIONS
Kriti Str. 26
10439 Athen
Tel. +30 210 883 3337
Fax +30 210 883 4436
wago.info@dimoulas.com.gr

Hong Kong
National Concord Eng., Ltd.
Unit A-B, 5/F.
Southeast Industrial Building
611-619 Castle Peak Road
Tsuen Wan, N.T.
Phone +852 24292611
Fax +852 24292164
sales@nce.com.hk

Hungary
WAGO Hungária KFT
Ipari Park, Gyár u. 2
2040 Budapest
Phone +36 23 502-170
Fax +36 23 502-166
info.hu@wago.com

Iceland
S. Gudjonsson ehf.
Audbrekku 9-11
202 Kopavogur
Phone +354 520-4500
Fax +354 520-4501
export@wago.com

India
WAGO & CONTROLS (INDIA) LTD.
C-27, Sector-58, Phase-III
Noida-201 301
Gautam Budh Nagar (U.P)
Phone +91 120 2 580409 10
Fax +91 120 2 580081
info@wagoindia.com

Indonesia
please contact WAGO Singapore

Iraq
please contact WAGO Middle East

Iran
Patsa Industry
No. 2 Bahar St.
South Shiraz Ave
P.O. Box.: 15875-1698
14369 Tehran
Phone +98 21 88047626
Fax +98 21 88040886
info.uae@wago.com

Ireland
Drives & Controls
Unit F4, Riverview Business Park
Nangor Road
Dublin 12
Phone +353 1 4604474
Fax +353 1 4604507
wago@drivesandcontrols.ie

Israel
Comtel Israel Electronic Solutions Ltd.
Bet Hapaamon
20 Hataas Street
P.O. Box 66
44425 Kefar-Saba
Phone +972 9 76 77 240
Fax +972 9 76 77 243
sales@comtel.co.il

Italy
WAGO ELETTRONICA SRL
Via Parini 1
40033 Casalecchio di Reno (BO)
Phone +39 051 6132112
Fax +39 051 6272174
info-ita@wago.com

Japan
WAGO Co. of JAPAN Ltd.
Nittetsu ND-Tower Building 4F
Kameido 1-5-7
Koto-Ku
Tokyo 136-0071
Phone +81 3 5627 2050
Fax +81 3 5627 2055
info-jp@wago.com

Kazakhstan
TOO INTANT
ul. Muratbaeva, d. 61
050026 Almaty
Phone +7 727 2371492
Fax +7 727 2980151
info@intant.kz

TOO TechnikTrade
ul. i. A. Protosanova, 81
070004 Ust-Kamenogorsk
Phone +7 7232 254064
Fax +7 7232 253251
info@technik.kz

Korea
Mahani Electric Co. Ltd.
792-7 Yeoksam-Dong
Kangnam-Gu, 135-080
Seoul, Korea
Phone +82 2 2194 3300
Fax +82 2 2194 3397
export@wago.com

Kosovo
please contact WAGO Bulgaria

Kuwait
Kuwait Controls Company
Al Sour Street, Above Luffhansa Airline
Safat Kuwait 13062
Phone +965 222 54300
Fax +965 224 33698
info.uae@wago.com

Latvia
INSTABALT LATVIA SIA
Vestienas iela 6
Riga, LV-1035
Phone +371 790 1188
Fax +371 790 1180
info@instabalt.lv

Lebanon
Gemayel Trading & Contracting
Antonins Project
P.O. BOX 70-1096
Antelias, Lebanon
Phone +961 4 521 029
Fax +961 4 521 029
gtc.libanon@gmail.com

Lithuania

INSTABALT LIT UAB
Savanorių 187
Vilnius, 2053
Phone +370 52 322 295
Fax +370 52 322 247
info@instabalt.lt

Luxembourg

please contact WAGO Belgium

Macedonia

please contact WAGO Bulgaria

Malaysia

WAGO Representative Office Malaysia
No 806, Block A4, Leisure Commerce Square,
No 9, Jalan PJS 8/9, 46150 Petaling Jaya,
Selangor Darul Ehsan, Malaysia
Phone +60 3 7877 1776
Fax +60 3 7877 2776
kian.guan.tan@wago.com

HPH Materials (M) Sdn Bhd
No. 4, Jalan Nilam SS15/4
Suban Hi-Tech Industrial Park
40000 Shah Alam
Selangor, D.E. Malaysia
Phone +60 3 5638 2213
Fax +60 3 5638 8213
info@hphmaterials.com

Setia Raya Teknik Sdn. Bhd.
40 & 42 Jalan SS15/4
Subang Jaya, 47500 PJ.
Selangor D.E. Malaysia
Phone +60 3 5633 5511
Fax +60 3 5633 1411
sales@setiaraya.com.my

Mexico

WAGO SA de CV
Av. Del Marques 38 Bodega 3
P. I. Bernardo Quintana
76240 El Marques, Querétaro
Phone +52 442 221 5946
Fax +52 442 221 5063
Toll-Free: 001-800-309-5975
info.mx@wago.com

Morocco

please contact WAGO France

Netherlands

WAGO Nederland
Laan van de Ram 19
7324 BW Apeldoorn
Phone +31 55 36 83 500
Fax +31 55 36 83 599
info-nl@wago.com

New Zealand

NHP NZ
7 Lockhart Place
Mt Wellington
New Zealand
Phone +64 9 2761967
Fax +64 9 2761992
export@wago.com

Norway

WAGO Norge NUF
Jerikoveien 20
1067 Oslo
Phone +47 22 30 94 50
Fax +47 22 30 94 51
info.no@wago.com

Pakistan

Fuzilogix Automation & Control
Suite No. 14, 5th Floor, Shan Arcade
New Garden Town, Lahore
Pakistan
Phone +92 42 594 1503 - 4
Fax +92 42 585 1431
info@fuzilogix.com

Peru

Desimat Peru
Av. Velasco Astete 2371
Surco Lima
Phone +51 1 2752776
Fax +51 1 2752765
export@wago.com

Philippines

please contact WAGO Singapore

Poland

WAGO ELWAG sp. z o. o.
ul. Piekna 58 a
50-506 Wrocław
Phone +48 71 3602970
Fax +48 71 3602999
wago.elwag@wago.com

Portugal

MORGADO & CA. LDA - SEDE
Estrada Exterior da
Circunvalação 3558/3560
Apartado 1057
4435 Rio Tinto
Phone +351 22 9770600
Fax +351 22 9770699
geral@morgadocl.pt

Republic of Moldova

Electroservice Slavinski T.T.
str. Bolgarcaia 9, office 6
2001 Kishinev
Phone +373 22 274427
Fax +373 22 224481
es@es.mldnet.com

Romania

WAGO Kontakttechnik GmbH & Co. KG
WAGO Representative Office Bucharest
Str. Nicolae G. Caramfil Nr. 26, Bl. 1D, Et. 3, Ap. 7, Sect. 1, OP52
014144-Bucuresti, Romania
Tel. +40-(0)31 421 85 68
Fax +40-(0)21 232 02 31
info-RO@wago.com

VDR & Servicii srl
Str. Valeriu Braniște, nr. 60, ap.1, sector 3
Romania
Phone +40 21 3225074/76
Fax +40 21 3225075
office@componente-automatizari.ro

Russia

OOO WAGO Kontakt Rus
Dmitrovskoe shosse, 157, bldg. 12/5
127411 Moscow
Russia
Phone +7 495 9874790
Fax +7 495 9874791
info.ru@wago.com

WAGO Branch office
Ekaterinburg
Phone +7 343 216 3426

WAGO Branch office
Novosibirsk
Phone +7 383 217 9244

WAGO Branch office
St. Petersburg
Phone +7 812 312 1918

Saudi Arabia

Ali Zaid Al Quraishi & Partners Electrical Services of S.A.
Al Quraishi Center, King Khalid Street
P.O. Box 7386
Dammam - 31462
Phone +966 3 8351155
Fax +966 3 8352297
info.uae@wago.com

Serbia

please contact WAGO Bulgaria

Tagor Electronic doo
Tihomira Brankovica 21
18000 Nis
Tel. +381 18 575545
Fax +381 18 217125
ana.aleksic@tagor.rs

Singapore

WAGO Electronic Pte Ltd
10 Upper Aljunied Link
#04-04 Johnson Controls Building
Singapore 367904
Phone +65 62866776
Fax +65 62842425
info-sing@wago.com

Slovakia

WAGO Elektrik spol. s r. o.
Odborárska 52
83102 Bratislava
Tel. +421 2 4569 2503
export@wago.com

Proelektro spol. s r.o.

Na barine 22
84103 Bratislava Lamač
Tel. +421 2 4569 2503
info@wago.sk

Slovenia

GENERA d.o.o.
Prevale 10
1236 Trzin
Phone +386 14393050
Fax +386 14393090
genera@genera.si

IC elektronika d.o.o.

Vodovodna cesta 100
1000 Ljubljana
Phone +386 15680110
Fax +386 15689107
info@ic-elect.si

South Africa

Shorrock Automation (Pty) Ltd
Postnet Suite # 219
Private Bag X 8, Elardus Park
0047 Pretoria
Phone +27 12 4500300
Fax +27 12 4500322
sales@shorrock.co.za

Spain

DICOMAT S.L.
Avda. de la Industria, 36
Apartado Correos, 1.178
28108 - Alcobendas (Madrid)
Phone +34 91 6621362
Fax +34 91 6610089
info@dicomat.com

Sweden

WAGO Sverige
WAGO Kontakttechnik GmbH
Tyskland Filial
Box 639, 17527 Järfälla
Datavägen 9 A, 17543 Järfälla
Phone +46 858410680
Fax +46 858410699
info.se@wago.com

Switzerland

WAGO CONTACT SA
Rte. de l'Industrie 19
Case Postale 168
1564 Domdidier
Phone +41/26 676 75 86
Fax +41/26 676 75 01
info.switzerland@wago.com

Syria

Zahabi Co.
8/5 Shouhadat St., P.O. Box 8262
Aleppo
Phone +963 21 22 235 / 6
Fax +963 21 24 768
info.uae@wago.com

Taiwan R.O.C.

WAGO Contact, Ltd.
5F., No. 168, Jiankang Rd
Zhonghe City
Taipei County 23585, Taiwan
Phone +886 2 22250123
Fax +886 2 22251511
info.taiwan@wago.com

Thailand

WAGO Representative Office Thailand
4th Floor, KS Building
213/6-8 Rachada Phisek Road
Ding Daeng Bangkok 10320
Phone +66 2 6935611
Fax +66 2 6935612
wago@asianet.co.th

US Power Distribution Co., Ltd.
4th Floor K.S. Building
213/6-8 Rachada Phisek Road
Ding Daeng, Bangkok 10400
Phone +66 2 2763040
Fax +66 2 2763049
wago@asianet.co.th

Tunisia

please contact WAGO France

Turkey

WAGO Elektronik Sanayi ve Ticaret Ltd. Şti.
Yukan Dudullu Mahallesi Bayraktar Bulvan
Cad. Hattat Sok. No. 10
34775 Ümraniye - Istanbul
Turkey
Tel. +90 216 472 1133
Fax +90 216 472 9910
info.tr@wago.com

Ukraine

NPP Logicon
Predslavinskaya street, 39, office 303
03150 Kiev
Phone +380 44 5228019
Fax +380 44 2611803
info@logicon.ua

OOO Mikropribor

ul. Kotelnikova, 4
03115 Kiev
Phone +380 44 5369386
Fax +380 44 5369387
sales@micropribor.kiev.ua

United Arab Emirates (UAE)

WAGO Middle East (FZC)
SAIF Zone, Q4-282
P.O. Box: 120665
Sharjah, UAE
Phone +971 6 5579920
Fax +971 6 5579921
info.uae@wago.com

USA

WAGO Corporation
N120 W19129 Freistadt Road
Germantown, WI 53022
Phone +1 262 255 6222
Fax +1 262 255 3232
Toll-Free: 1-800 DIN Rail (346-7245)
info.us@wago.com

Venezuela

PETROBORNAS, C.A.
C.C. PLAZA AEROPUERTO - PISO 1 - LOCAL P1 - B - 03
(8015) UNARE - PUERTO ORDAZ - ESTADO BÓLIVAR
REPÚBLICA BOLIVARIANA DE VENEZUELA
Tel. +58 286 951 3382
Fax +58 286 951 3382
info@petrobornas.com

Vietnam

please contact WAGO Germany (Minden)

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