



Planning with Pluggable Installation

WAGO Pluggable Connection System *WINSTA*®



Modern Electrical Installation Requirements

Building use
should be **flexible**
and **expandable**.



Reduction
in construction times



Increased construction volume

2012 → 2017

+19 %

(Source: DIW Berlin)

Increased demand for
sustainable
construction



Shortage of skilled labor

+48 %

longer staff search

(Source: AA)

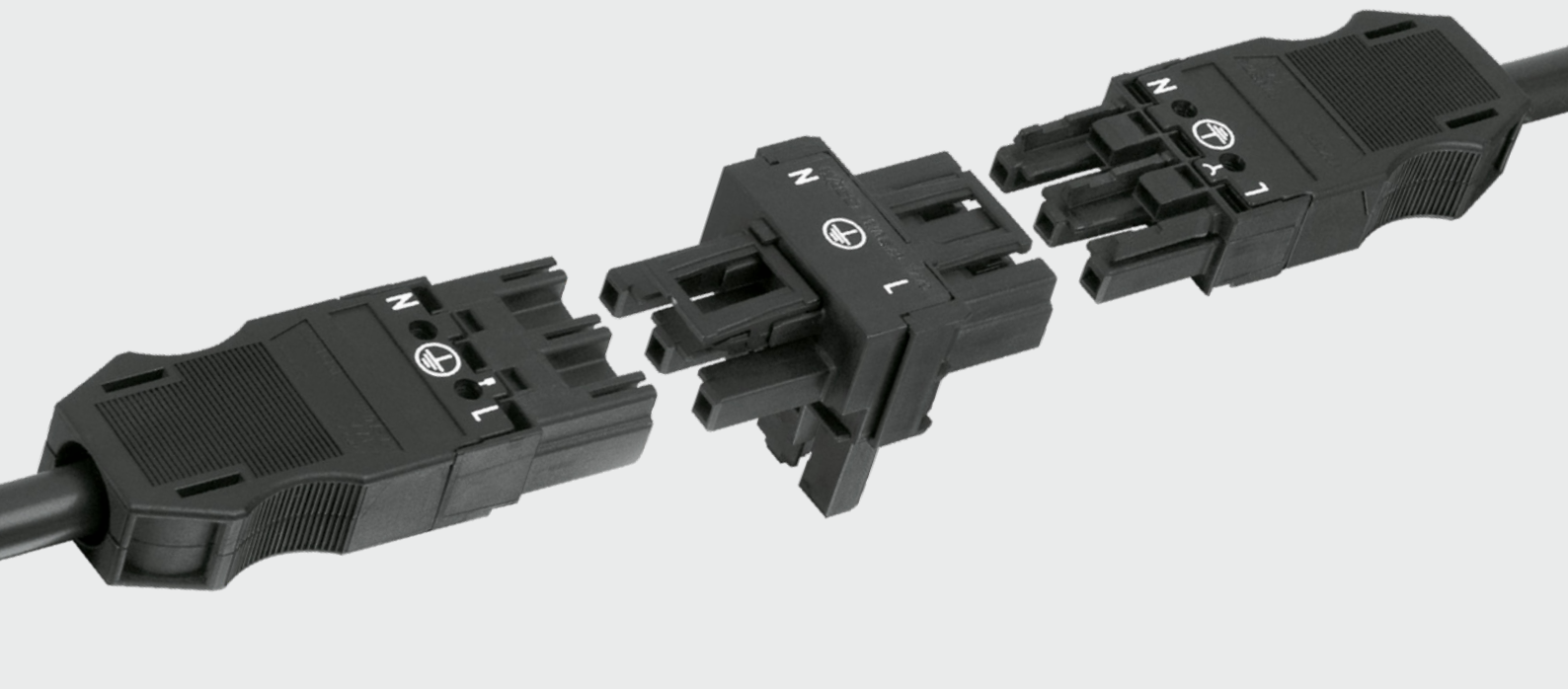
Our Answer to the Requirements:

Construction times for functional buildings have shortened in recent years ever further. As a result, less and less time is available to companies for electrical installations and subsequent troubleshooting. The **WINSTA® Pluggable Connection System** minimizes and optimizes the tight installation time on the construction site. Instead of individually wiring each light, socket or other building technology components, only the transfer point has to be wired to the pluggable installation. And then it's just **Plug & Play** from there. Pre-assembled connecting and interconnecting cables make short work of the pluggable installation and **color coding** makes **error-free installation** easy.

Modern buildings have high demands on the flexibility of the room layout. For example, the power supply can be **adapted at any time** for individual workstations when the position of the desks changes due to a new room layout by using pluggable connectors in combination with ceiling connection columns.

Buildings designed in a targeted fashion that is optimized from the standpoint of environmental friendliness and energy management are highly regarded. Sustainability has become a sign of quality and factors heavily into success among competitors. In fact, the levels of ecological and economic quality that can be achieved for a building are determined when components are selected for building construction. **Speed, flexibility, and expandability** – these criteria are becoming more and more important over the entire life cycle of buildings and are **parameters for the future viability** of buildings.

The **WINSTA® Pluggable Connection System** for building installations takes these aspects into account in its flexible and modifiable construction and **encourages sustainable building quality** already in the planning phase.



The **WINSTA**® Pluggable Connection System

The **WINSTA**® Pluggable Connection System readily meets the high requirements of building installations. The system provides simple pluggable electrical connections – electrical installations are fast, safe and error-free. You benefit from quality-tested components that ensure modern installations are error-free and completed on time.

Your Benefits:

- Time savings at construction sites
- Optimized resource allocation
- Protection against mismatching and mechanical coding
- Reconfiguration flexibility
- Timely completion of installation work

WINSTA® in Use

WINSTA® is perfect for functional buildings where there are multiple installations or those planned in a grid. Recurring and repetitive mating cycles make the use of pre-assembled system solutions possible. This applies to different building types, such as office buildings, hotels, schools and universities, as well as hospitals and care facilities.

We have assembled a collection of typical applications in building installations in five categories. They can be realized in this form or provide a planning basis to meet your individual requirements.

The **WINSTA® MINI** family also fulfills the requirements for IP40, so that the connectors can also be used in easily accessible areas.



Installation of lighting systems



Installation of underfloor systems



Installation of shading systems



Installation of cable duct systems

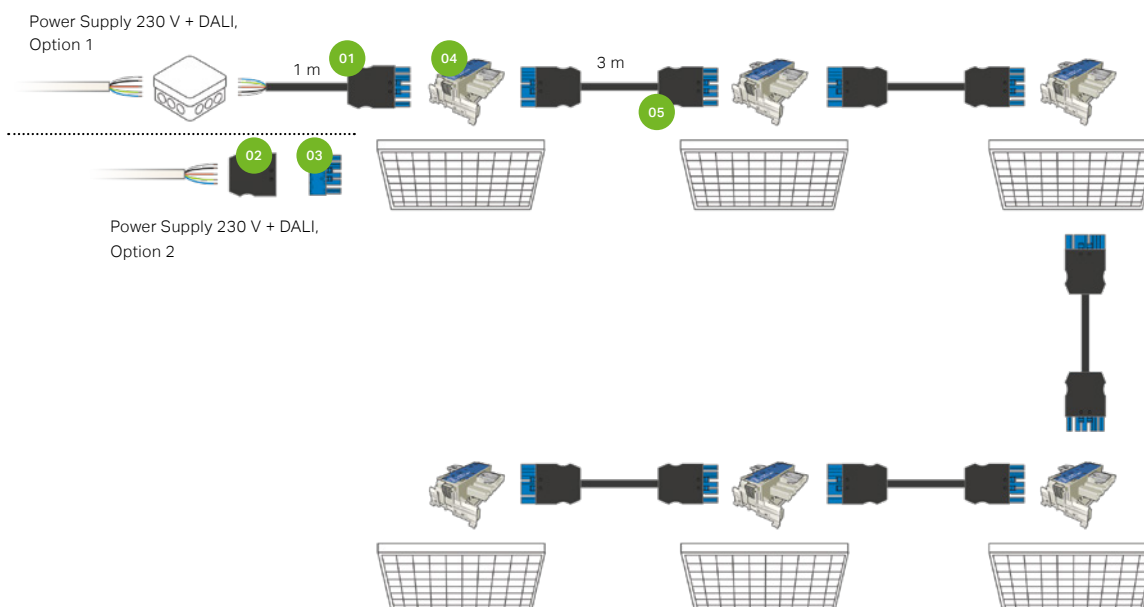


Electrification of workstations

DALI Lights with Linect®

Your Benefits:

- Lighting control via DALI bus
- Eliminate time-consuming through-wiring light installations
- Quickly replace defective lights in the operating phase
- Linect® lights are available at no extra cost from various manufacturers

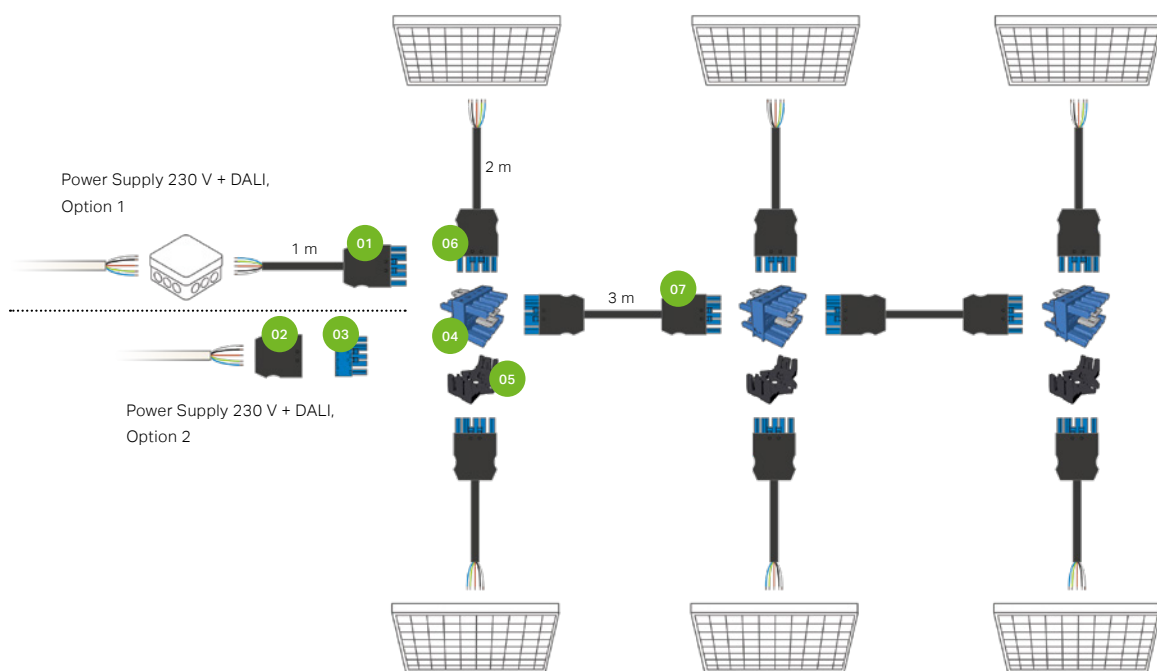


| Parts List for Connecting 6 DALI Lights | | | |
|---|------------------|----------|---|
| Pos. | Item Number | Quantity | Description |
| Power Supply 230 V + DALI, Option 1 | | | |
| 01 | 771-9985/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 230 V + DALI, Option 2 | | | |
| 02 | 770-505 | 1 pcs | Strain relief housing for two cables, <i>WINSTA</i> ® MIDI, five-pole, black, for 9 ... 13 mm cable diameter |
| 03 | 770-1105 | 1 pcs | Socket without strain relief housing, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue |
| Installation | | | |
| 04 | 770-7105 | 6 pcs | Linect® T-distribution connector, <i>WINSTA</i> ® MIDI, 5-pole, I-coding I, blue |
| 05 | 771-9985/006-301 | 5 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 3 m long |

DALI Lights with Connecting Cable

Your Benefits:

- Lighting control via DALI bus
- Eliminate time-consuming through-wiring light installations
- Quickly replace defective lights in the operating phase
- Wide range of standard luminaires available for connecting cables



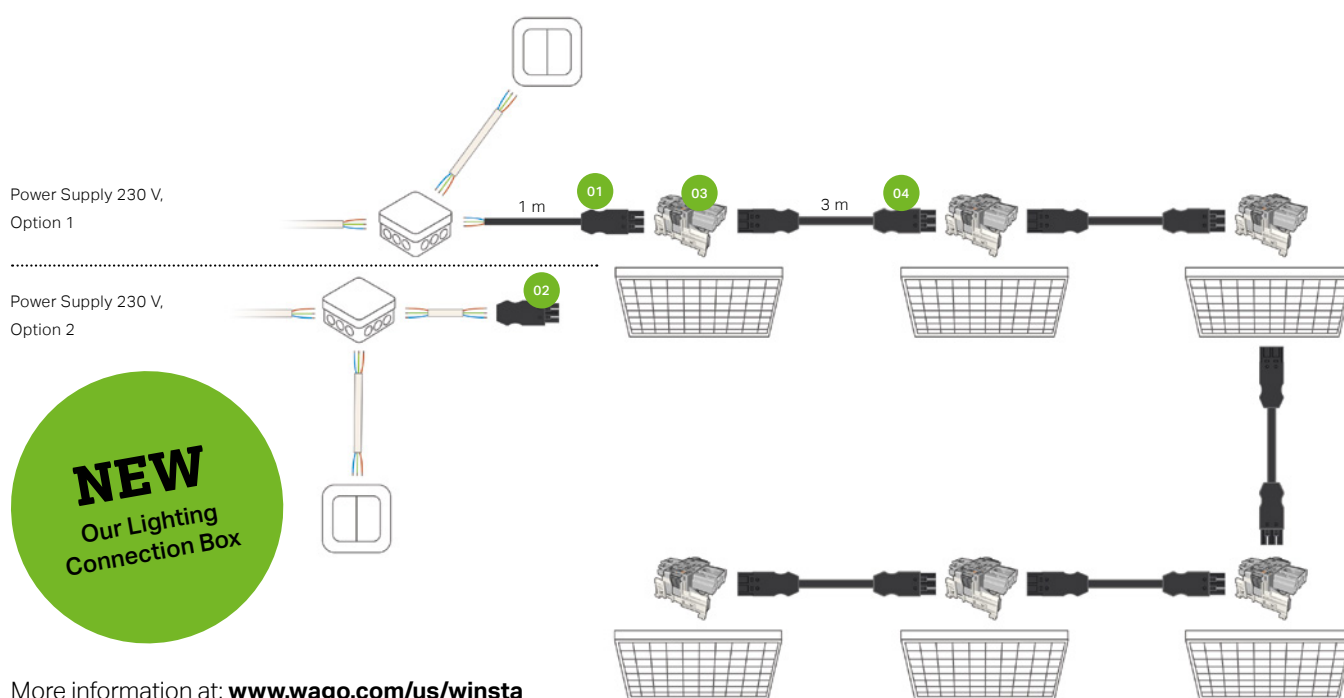
Parts List for Connecting 6 DALI Lights

| Pos. | Item Number | Quantity | Description |
|-------------------------------------|------------------|----------|---|
| Power Supply 230 V + DALI, Option 1 | | | |
| 01 | 771-9985/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 230 V + DALI, Option 2 | | | |
| 02 | 770-505 | 1 pcs | Strain relief housing for two cables, <i>WINSTA</i> ® MIDI, five-pole, black, for 9 ... 13 mm cable diameter |
| 03 | 770-1105 | 1 pcs | Socket without strain relief housing, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue |
| Installation | | | |
| 04 | 770-618 | 3 pcs | h-distribution connector, 1 x plug, 3 x socket, <i>WINSTA</i> ® MIDI, 5-pole, I-coding I, blue |
| 05 | 770-625 | 3 pcs | Mounting plate for distribution connectors, black |
| 06 | 771-9985/206-201 | 6 pcs | Connecting cable, plug – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 2 m long |
| 07 | 771-9985/006-301 | 2 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 3 m long |

Switched Lighting with Linect®

Your Benefits:

- Eliminate time-consuming through-wiring light installations
- Quickly replace defective lights in the operating phase
- Linect® lights are available at no extra cost from various manufacturers



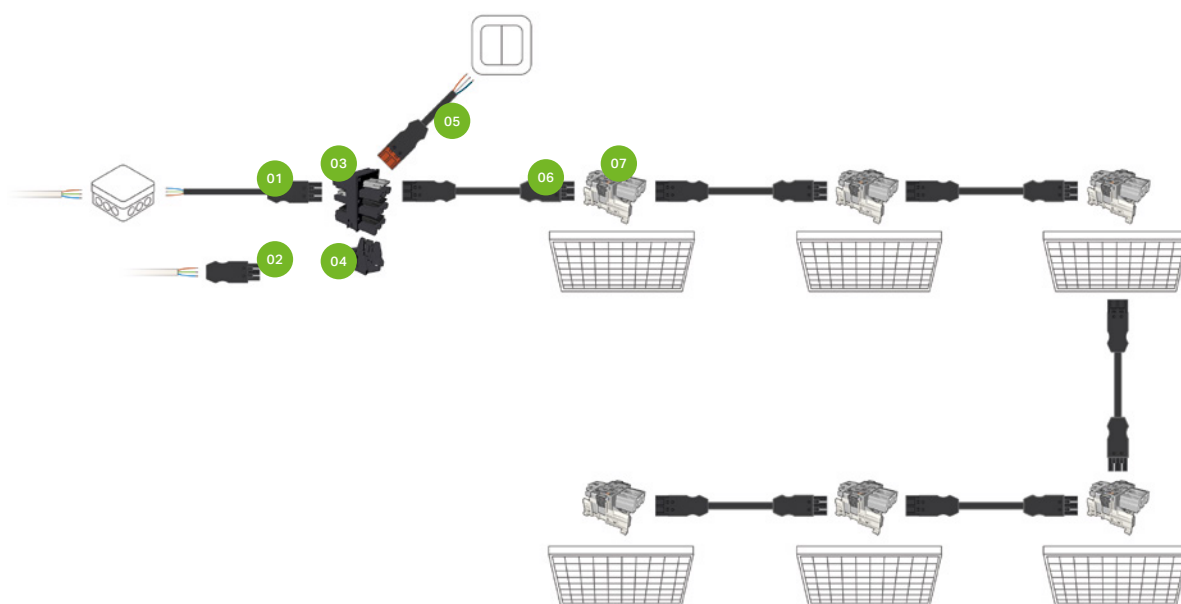
Parts List for Connecting 6 DALI Lights

| Pos. | Item Number | Quantity | Description |
|------------------------------|------------------|----------|--|
| Power Supply 230 V, Option 1 | | | |
| 01 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |
| Power Supply 230 V, Option 2 | | | |
| 02 | 770-203/035-000 | 1 pcs | Socket with strain relief housing, for quick assembly, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, for 7 ... 11.5 mm cable diameter |
| Installation | | | |
| 03 | 770-6223 | 6 pcs | Linect® T-distribution connector, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, white |
| 04 | 771-9993/006-301 | 5 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 3 m long |

Single-Pole Switch and Series Circuits with Distribution Connector and Linect®

Your Benefits:

- Time-consuming installation of single-pole or series circuits is eliminated.
- Linect® lights are available at no extra cost from various manufacturers



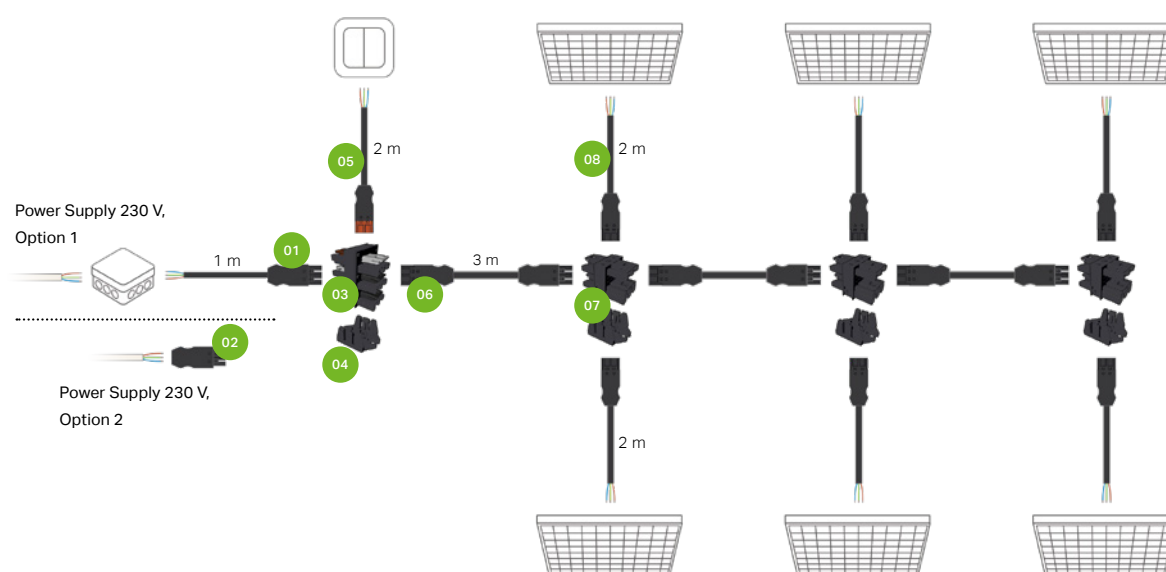
Parts List for Connecting 6 DALI Lights

| Pos. | Item Number | Quantity | Description |
|------------------------------|------------------|----------|--|
| Power Supply 230 V, Option 1 | | | |
| 01 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 230 V, Option 2 | | | |
| 02 | 770-203/035-000 | 1 pcs | Socket with strain relief housing, for quick assembly, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, for 7 ... 11.5 mm cable diameter |
| Installation | | | |
| 03 | 770-637 | 1 pcs | Distribution connector for single-pole switch and series circuits, black |
| 04 | 770-623 | 1 pcs | Mounting plate for distribution connectors, black |
| 05 | 771-9973/206-205 | 1 pcs | Connecting cable, plug – free end, <i>WINSTA</i> ® MIDI, 3-pole, S-coding, brown, H05VV-F 3x1.5 cable, 2 m long |
| 06 | 771-9993/006-301 | 5 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 3 m long |
| 07 | 770-6223 | 6 pcs | Linect® T-distribution connector, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, white |

Single-Pole Switch and Series Circuits with Distribution Connector and Connecting Cable

Your Benefits:

- Time-consuming installation of single-pole or series circuits is eliminated.
- Wide range of standard luminaires available for connecting cables



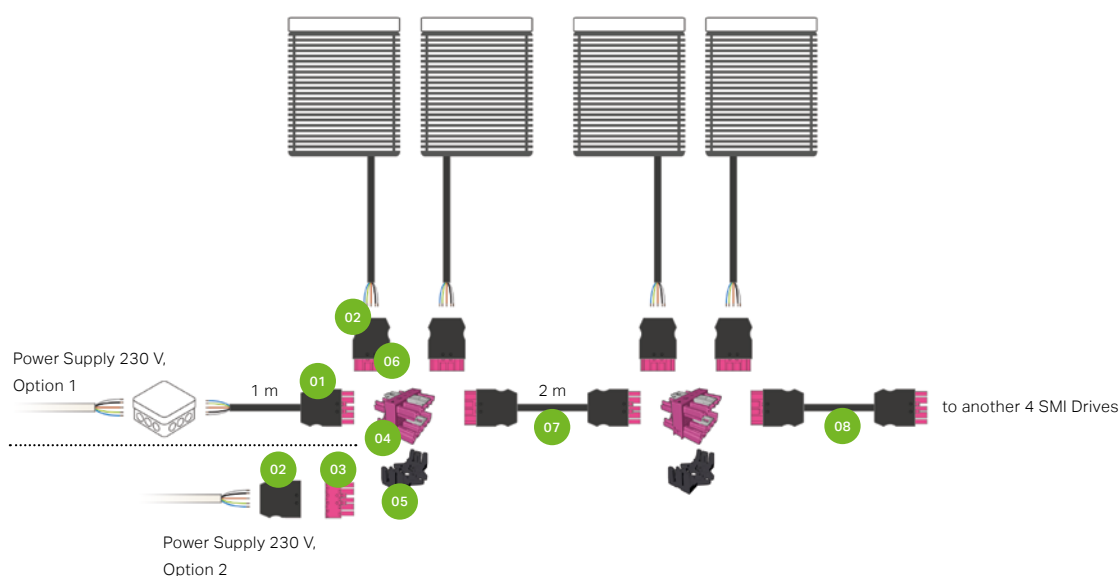
Parts List for Connecting 6 Lights

| Pos. | Item Number | Quantity | Description |
|------------------------------|------------------|----------|--|
| Power Supply 230 V, Option 1 | | | |
| 01 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 230 V, Option 2 | | | |
| 02 | 770-203/035-000 | 1 pcs | Socket with strain relief housing, for quick assembly, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, for 7 ... 11.5 mm cable diameter |
| Installation | | | |
| 03 | 770-637 | 1 pcs | Distribution connector for single-pole switch and series circuits, black |
| 04 | 770-623 | 4 pcs | Mounting plate for distribution connectors, black |
| 05 | 771-9973/206-205 | 1 pcs | Connecting cable, plug – free end, <i>WINSTA</i> ® MIDI, 3-pole, S-coding, brown, H05VV-F 3x1.5 cable, 2 m long |
| 06 | 771-9993/006-301 | 3 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 3 m long |
| 07 | 770-607 | 3 pcs | Distribution connector, 3-way, 1 x plug/3 x socket, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black |
| 08 | 771-9993/206-201 | 6 pcs | Connecting cable, plug – free end, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 3 m long |

SMI Sunshade Motors

Your Benefits:

- Shading control via SMI connection
- Easily control interfaces between building systems (blinds and electrical devices) within a project



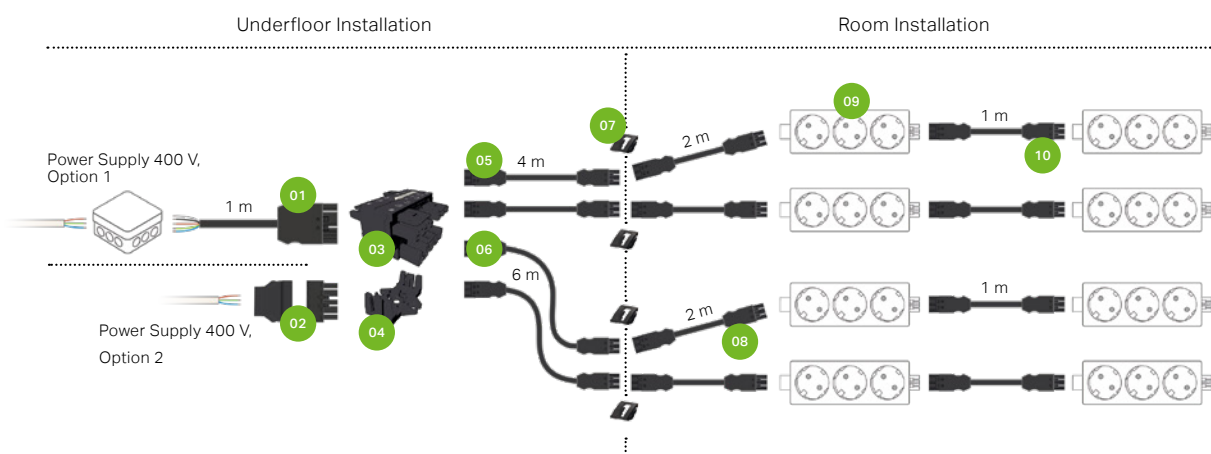
Parts List for Connecting 8 SMI Blind Drives

| Pos. | Item Number | Quantity | Description |
|------------------------------------|--------------------------|----------|--|
| Power Supply 230 V + SMI, Option 1 | | | |
| 01 | 771-9935/106-107/080-000 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 230 V + SMI, Option 2 | | | |
| 02 | 770-505 | 1 pcs | Strain relief housing for two cables, <i>WINSTA</i> ® MIDI, five-pole, black, for 9 ... 13 mm cable diameter |
| 03 | 770-285/080-000 | 1 pcs | Socket without strain relief housing, <i>WINSTA</i> ® MIDI, 5-pole, B-coding, pink, with special marking L N PE I+ I- |
| Installation | | | |
| 04 | 770-505 | 8 pcs | Strain relief housing for two cables, <i>WINSTA</i> ® MIDI, five-pole, black, for 9 ... 13 mm cable diameter |
| 05 | 770-1746/080-000 | 4 pcs | Distribution connector, 3-way, 1 x plug/3 x socket, <i>WINSTA</i> ® MIDI, 5-pole, B-coding, pink, with special marking L N PE I+ I- |
| 06 | 770-625 | 8 pcs | Mounting plate for distribution connectors, black |
| 07 | 770-295/080-000 | 8 pcs | Plug without strain relief housing, <i>WINSTA</i> ® MIDI, 5-pole, B-coding, pink, with special marking L N PE I+ I- |
| 08 | 771-9935/006-207/080-000 | 3 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 5-pole, B-coding, pink, H05VV-F 5G1.5 cable, 2 m long, with special marking L N PE I+ I- |

Power Supply for Workstations

Your Benefits:

- Significantly higher workplace equipment flexibility compared to permanently installed installation systems
- Symmetric phase loads via cable outlet with phase selection
- Avoid unnecessary cable bundles at the workplace via structured installations



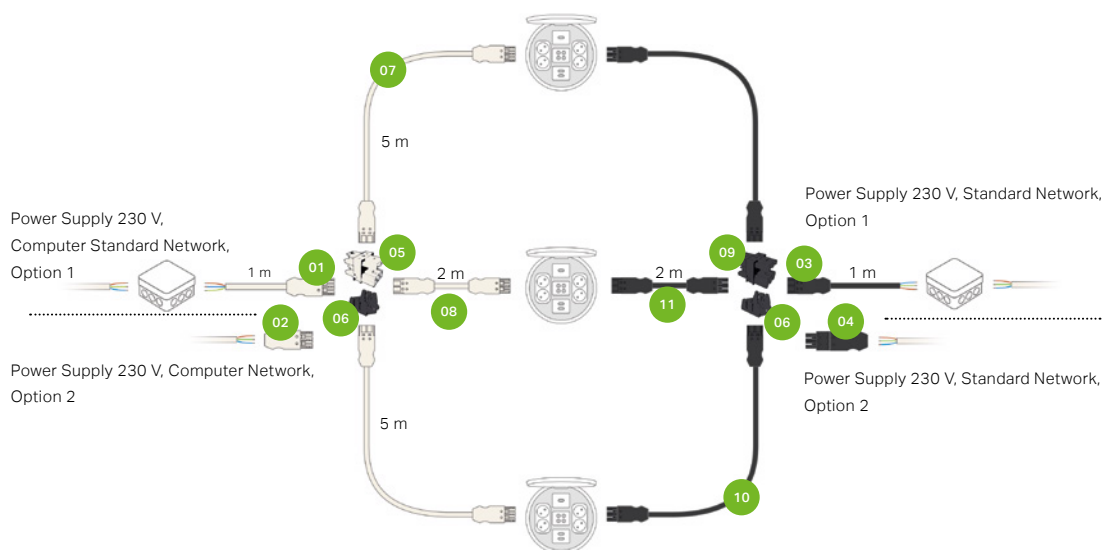
Parts List for Connecting 4 Workstations

| Pos. | Item Number | Quantity | Description |
|------------------------------|---------------------|----------|--|
| Power Supply 400 V, Option 1 | | | |
| 01 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, WINSTA® MIDI, 5-pole, I-coding, blue, H05VV-F 5G1.5 cable, 1 m long |
| Power Supply 400 V, Option 2 | | | |
| 02 | 770-105 | 1 pcs | Socket with strain relief housing, WINSTA® MIDI, 5-pole, A-coding, black, for 9 ... 13 mm cable diameter |
| Installation | | | |
| 03 | 770-640 | 1 pcs | Three-phase to single-phase distribution connector, with phase selection, WINSTA® MIDI, 5- to 3-pole, A-coding, black |
| 04 | 770-625 | 1 pcs | Mounting plate for distribution connectors, black |
| 05 | 771-9993/006-401 | 2 pcs | Interconnecting cable, socket – plug, WINSTA® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 4 m long |
| 06 | 771-9993/006-601 | 2 pcs | Interconnecting cable, socket – plug, WINSTA® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 6 m long |
| 07 | 770-111 | 4 pcs | Locking lever for flying leads, black, tool operated |
| 08 | 771-9993/006-201 | 4 pcs | Interconnecting cable, socket – plug, WINSTA® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 2 m long |
| 09 | 8006-0099/K000-0010 | 8 pcs | 3-way EVOLine Express Power Strip, type 910, black, with touch-proof protection |
| 10 | 771-9993/006-101 | 4 pcs | Interconnecting cable, socket – plug, WINSTA® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |

Floor Boxes for Standard and Computer Networks

Your Benefits:

- Easy cable connection when installing the mounting boxes saves time
- Easily replace defective sockets and minimize downtimes during operation



Parts List for Connecting 3 Floor Boxes

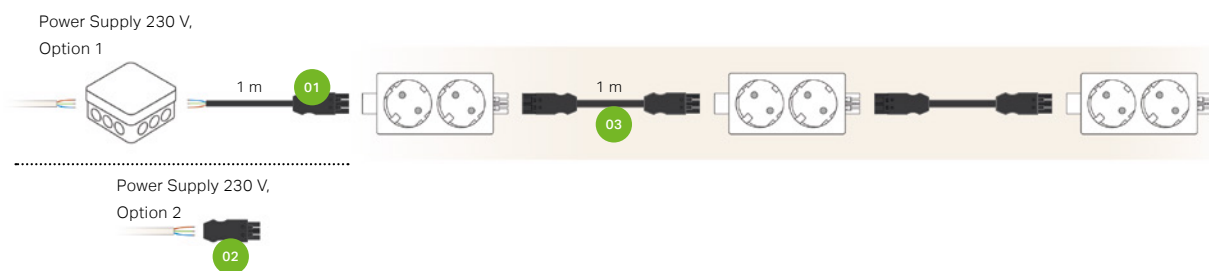
| Pos. | Item Number | Quantity | Description |
|---|------------------|----------|--|
| Power Supply 230 V, Computer + Standard Network, Option 1 | | | |
| 01 | 771-9993/106-102 | 1 pcs | Connecting cable, socket – free end, WINSTA ® MIDI, 3-pole, A-coding, white, H05VV-F 3G1.5 cable, 1 m long |
| 02 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, WINSTA ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |
| Power Supply 230 V, Computer + Standard Network, Option 2 | | | |
| 03 | 770-223/035-050 | 1 pcs | Socket with strain relief housing, for quick assembly, WINSTA ® MIDI, 3-pole, A-coding, white, for 7 ... 11.5 mm cable diameter |
| 04 | 770-203/035-000 | 1 pcs | Socket with strain relief housing, for quick assembly, WINSTA ® MIDI, 3-pole, A-coding, black, for 7 ... 11.5 mm cable diameter |
| Installation | | | |
| 05 | 770-657 | 1 pcs | Distribution connector, 3-way, 1 x plug/3 x socket, WINSTA ® MIDI, 3-pole, A-coding, white |
| 06 | 770-623 | 2 pcs | Mounting plate for distribution connectors, black |
| 07 | 771-9993/006-502 | 2 pcs | Interconnecting cable, socket – plug, WINSTA ® MIDI, 3-pole, A-coding, white, H05VV-F 3G1.5 cable, 5 m long |
| 08 | 771-9993/006-202 | 1 pcs | Interconnecting cable, socket – plug, WINSTA ® MIDI, 3-pole, A-coding, white, H05VV-F 3G1.5 cable, 2 m long |
| 09 | 770-607 | 1 pcs | Distribution connector, 3-way, 1 x plug/3 x socket, WINSTA ® MIDI, 3-pole, A-coding, black |
| 10 | 771-9993/006-501 | 2 pcs | Interconnecting cable, socket – plug, WINSTA ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 5 m long |
| 11 | 771-9993/006-201 | 1 pcs | Interconnecting cable, socket – plug, WINSTA ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 2 m long |

Power Supply in Cable Ducts

230 V Power Supply

Your Benefits:

- Easy plug-in installation in narrow cable ducts
- System socket installation – faster than wiring mounting boxes with conventional sockets



Parts List for Connecting 3 Double Sockets

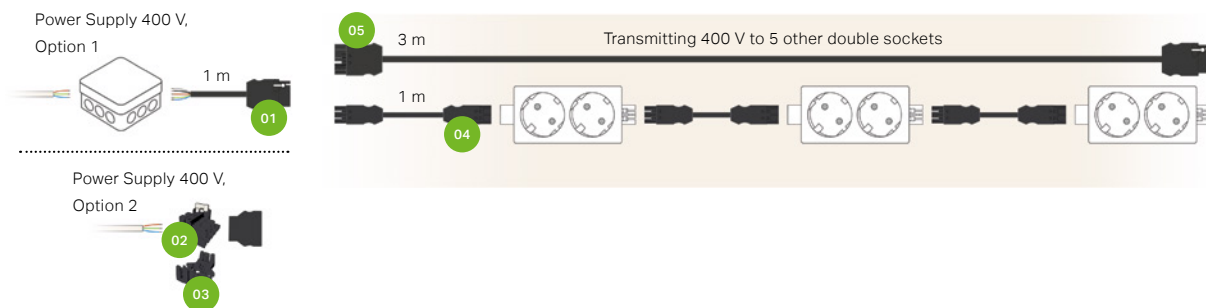
| Pos. | Item Number | Quantity | Description |
|------------------------------|------------------|----------|--|
| Power Supply 230 V, Option 1 | | | |
| 01 | 771-9993/106-101 | 1 pcs | Connecting cable, socket – free end, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |
| Power Supply 230 V, Option 2 | | | |
| 02 | 770-203/035-000 | 1 pcs | Socket with strain relief housing, for quick assembly, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, for 7 ... 11.5 mm cable diameter |
| Installation | | | |
| 03 | 771-9993/006-101 | 2 pcs | Interconnecting cable, socket – plug, <i>WINSTA</i> ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |

Power Supply in Cable Ducts

400 V Power Supply

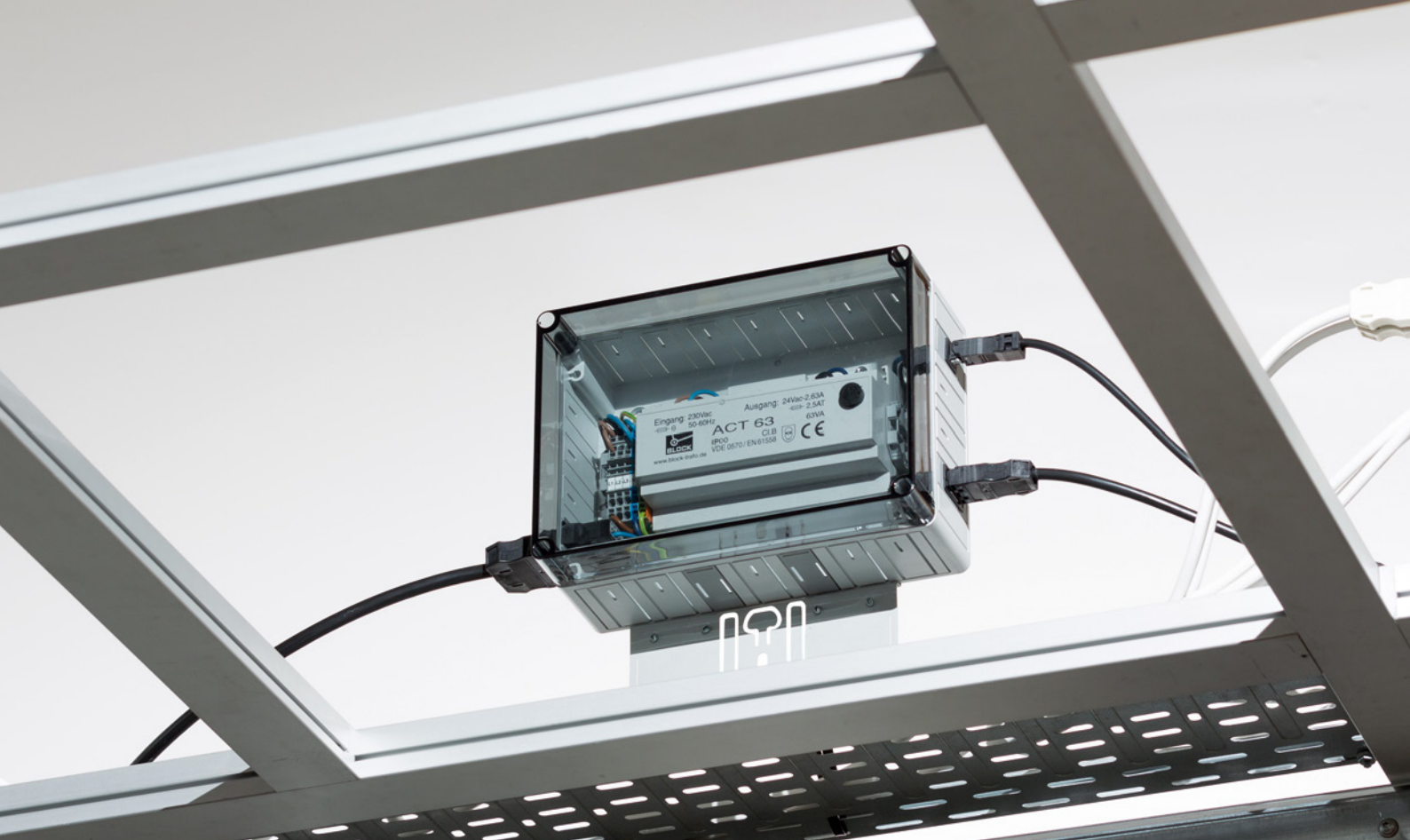
Your Benefits:

- Easy plug-in installation in narrow cable ducts
- System socket installation – faster than wiring mounting boxes with conventional sockets
- Flexible phase selection for symmetric network load



Parts List for Connecting 9 Double Sockets

| Pos. | Item Number | Quantity | Description |
|------------------------------|------------------|----------|---|
| Power Supply 400 V, Option 1 | | | |
| 01 | 771-8965/107-101 | 1 pcs | Connecting cable, distribution connector with phase selection – free end, WINSTA ® MIDI, 5- to 3-pole, A-coding, black, H05VV-F 5G2.5 cable, 1 m long |
| Power Supply 230 V, Option 2 | | | |
| 02 | 770-611 | 1 pcs | Distribution connector with phase selection, WINSTA ® MIDI, 5- to 3-pole, A-coding, black, with strain relief housing, for 9 ... 13 mm cable diameter |
| 03 | 770-625 | 1 pcs | Mounting plate for distribution connectors, black |
| Installation | | | |
| 04 | 771-9993/006-101 | 9 pcs | Interconnecting cable, socket – plug, WINSTA ® MIDI, 3-pole, A-coding, black, H05VV-F 3G1.5 cable, 1 m long |
| 05 | 771-8965/007-301 | 3 pcs | Interconnecting cable, distribution connector with phase selection – plug, WINSTA ® MIDI, 5- to 3-pole, A-coding, black, H05VV-F 5G2.5 cable, 6 m long |



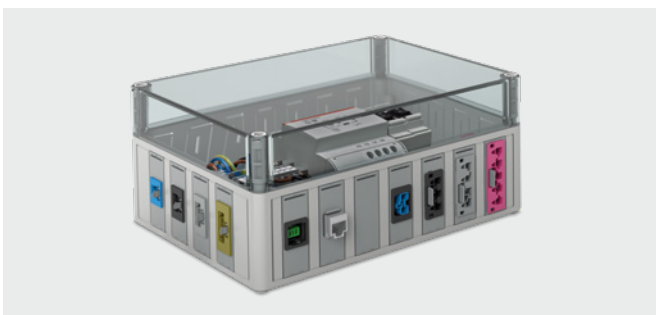
Engineering Services – WINSTA® Boxes

For Greater Diversity

The WINSTA® Boxes readily serve diverse applications. For example, WINSTA® Distribution Boxes support the following applications: control of several sunblind drives via SMI, 5-pole DALI light connection, as well as three-phase to single-phase distribution. WAGO also offers WINSTA® Distribution Boxes for self-assembly. WAGO's new WINSTA® System Box provides a variety of pluggable and compact electrical installation solutions, including power distribution, control and switching systems. Customize the box by configuring the number of slots and assigning their functions. Complete the box with DIN-35 rail-mount components such as circuit breakers, fuses and relays.

Your Benefits:

- Customize the box by configuring the number of slots and assigning their functions.
- Easily provide outputs via all variants of WINSTA® Snap-In Device Connectors.
- Install DIN-rail-mount components, such as circuit breakers, fuses and relays.



System box



Distribution box



WAGO Services

Technical Support

WAGO's technical support staff is ready to assist all customers with advice and guidance – from selecting the right product, through telephone support during commis-

sioning, all the way up to on-site troubleshooting. Customers directly benefit from knowledgeable WAGO experts who dramatically expedite project implementation.

WAGO provides advice and support with:

- Product selection
- Product commissioning
- All technical questions about WAGO products and solutions

WAGO helps customers with:

- Advice from experts with years of experience in planning construction projects
- Customizing solutions to ensure the technical and financial success of large projects (individual design of distribution connectors and functional boxes)

Planning and project design:

- Conceptual design
- Network planning
- Application design
- Component selection
- Quote generation

Contact our technical support:

Phone: +49 (0)571/ 887- 44555

Email: support.de@wago.com

Web: www.wago.com/de/contact

WINSTA® System Partners

WINSTA® provides simple pluggable electrical connections – electrical installations are fast, safe and error-free. Many well-known companies rely on our connection system when it comes to electrical installation and have already implemented a WINSTA® connection in their portfolio. Click here for an overview of our system partners:

www.wago.com/de/winsta-systempartner



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