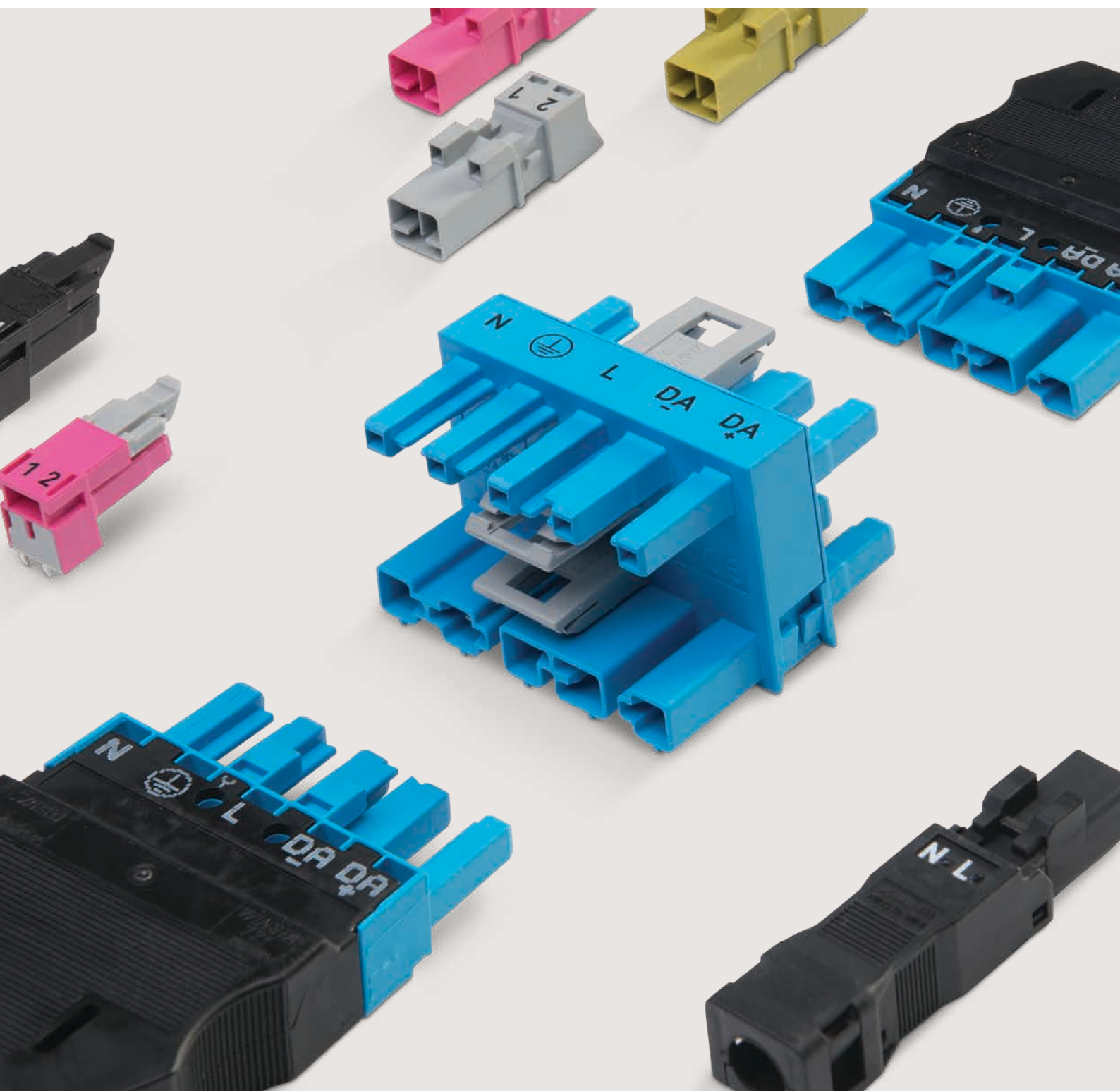


WINSTA®

Perfectly Plugged Electrical Building Installations





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THE SOLUTION FOR INTELLIGENT ELECTRICAL INSTALLATIONS

The **WINSTA**® Pluggable Connection System

The **WINSTA**® Family

We all use them every day:

Pluggable connectors.

We like their plug-and-play usability and know that they are also absolutely safe. So, why shouldn't you benefit from the same advantages in electrical installations?

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

Strain relief housing



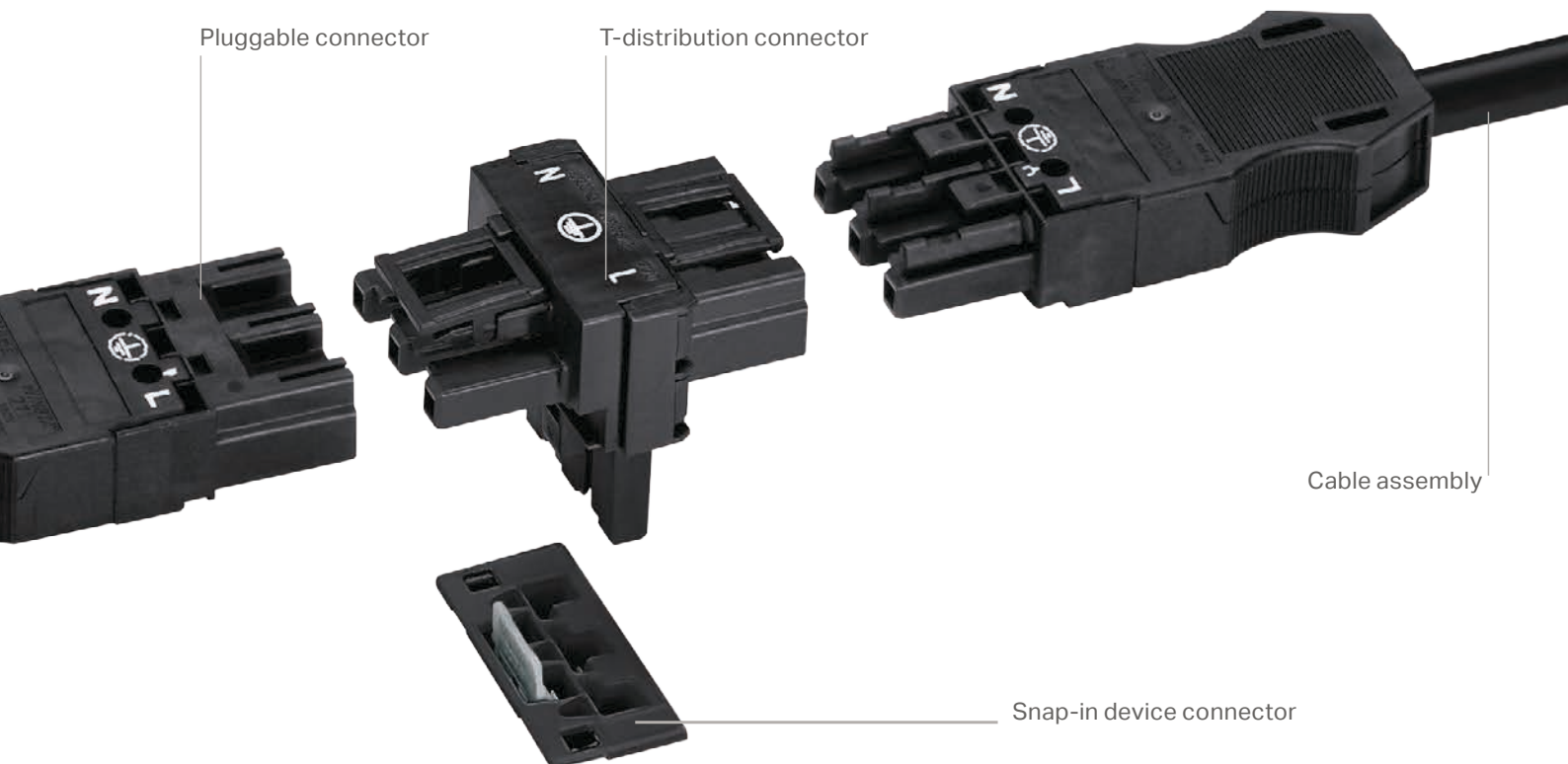
The **WINSTA**® Pluggable Connection System is protected against mismatching per IEC 61535. Components within the **WINSTA**® MINI special and **WINSTA**® MIDI special families are designed for specialty applications and certified to DIN EN 61984.

The *WINSTA*® system consists of the *WINSTA*® MINI/MINI special, *WINSTA*® MIDI/MIDI special, *WINSTA*® MAXI, *WINSTA*® RD, *WINSTA*® KNX and *WINSTA*® IDC product families, as well as *WINSTA*® Boxes. Together with the *Linect*® Connection System, WAGO offers you the right solution for all of your installations.

What is so special about *WINSTA*®? *WINSTA*® stands for efficiency, flexibility and safety while impressing with a wide range of benefits. The *WINSTA*® Pluggable Connection System is extremely user-friendly and offers tremendous diversity, including a wide range of accessories and specialty products. This enables you to individually and flexibly fulfill the most varying requirements. Optional cable assemblies expedite on-site installations. One special feature is the streamlined product size. The space-saving components enable the system to be installed in tight spaces.

How important is safety to you? The *WINSTA*® Pluggable Connection System guarantees safety thanks to integrated mismatching protection, as well as quick and easy-to-use individual coding options. Even inexperienced users can use *WINSTA*® products quickly, safely and error-free. An added safety factor is the ability to test the system, even when mated.

Make WAGO your single source: To complete your electrical building installation, *WINSTA*®-compatible automation components are available. And to ensure the *WINSTA*® Pluggable Connectors carry on WAGO's legacy of reliability, they are equipped with tried-and-tested Spring Pressure Connection Technology. Thanks to Push-in CAGE CLAMP®, solid conductors and fine-stranded conductors with ferrules can be connected by simply pushing them into the unit.





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Planners

- Fast, easy and innovative planning methods for any user
- Fast and easy renovations and retrofits
- Broad variety of models for perfect standard and custom solutions
- Highest current carrying capacity – maximum safety
- In-depth product training and support by qualified WAGO professionals

PERFECTLY PLUGGED – FAST, SAFE AND ERROR-FREE INSTALLATION

All of the *WINSTA*® Benefits

The *WINSTA*® Pluggable Connection System offers a variety of benefits in building electrical installations. See for yourself!



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Investors

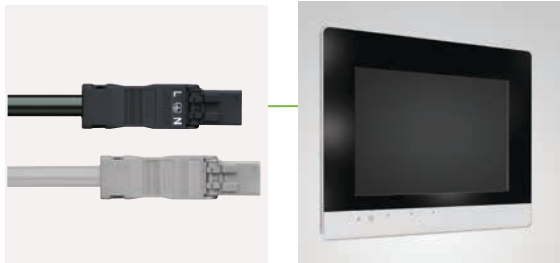
- Room-based planning optimizes materials use
- Plug & Play connections to keep you on schedule
- Fast, fault-free installation via pluggable connections
- Innovative, advanced products add value to modern buildings
- Maintenance-free spring pressure connection technology eliminates unplanned costs
- Combining the *WINSTA*® system with intelligent WAGO automation products minimizes operating costs (e.g., modern energy management)

Installers

- Easy installation via cleverly designed accessories
- Comprehensive color and coding options simplify installation
- Simple troubleshooting and quick replacement of pluggable connected loads
- Plug & Play for fast, safe and error-free installation
- Minimized physical labor for a healthier way of working

THE BUILDINGS OF TOMORROW ARE BUILT USING THE *WINSTA*[®] SYSTEM OF TODAY

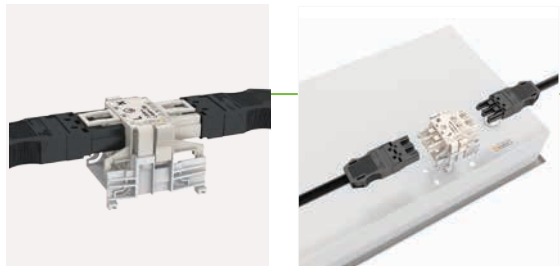
WINSTA[®] MINI
WINSTA[®] MINI special



WINSTA[®] MIDI
WINSTA[®] MIDI special



WINSTA[®] MIDI Linect[®]



WINSTA[®] MAXI





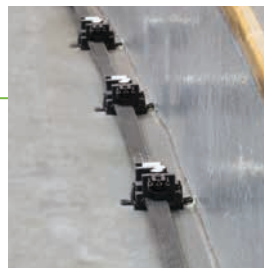
WINSTA® RD



WINSTA® KNX

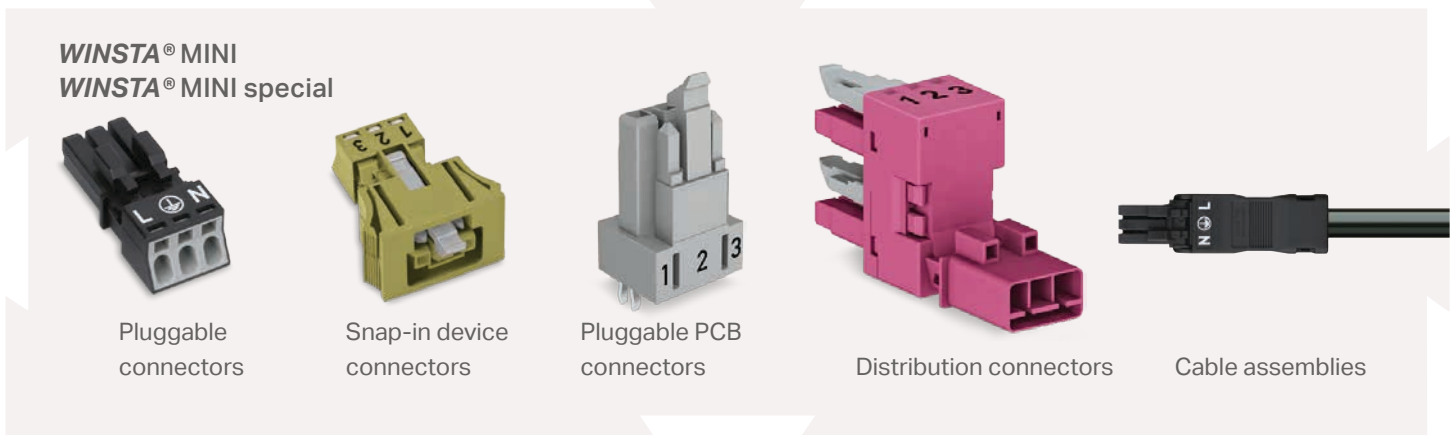


WINSTA® IDC



THE WINSTA® FAMILIES AT A GLANCE

The Pluggable Connection System



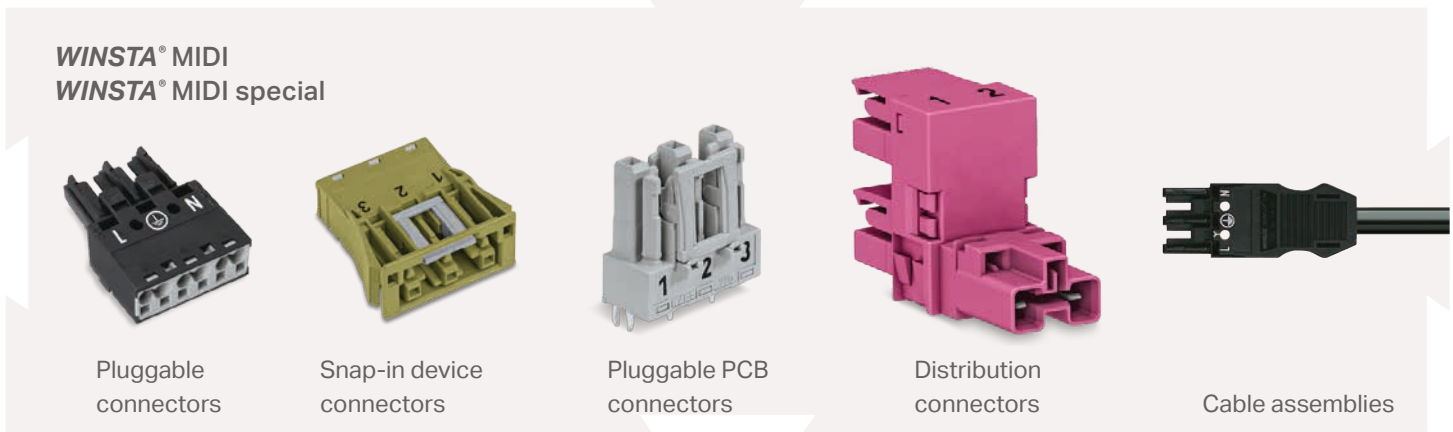
For Space-Restricted Applications

Compact and versatile: With a nominal current of 16 A, the WINSTA® MINI family is ideal for pluggable electrical installations in space-restricted applications. Its compact design and pole spacing of just 4.4 mm supports the trend of downsized components. For example, WINSTA® MINI is ideal for compact LED lights that have little room for connectors.

The 890 and 891 Series include 2- to 5-pole plug and sockets, snap-in device connectors, PCB

connectors, as well as distribution connectors and cable assemblies.

WINSTA® MINI special is ideal for unique electrical applications: B-coded connectors were developed as a response to increasing device complexity and support the growing need for customized and clear circuit identification. Gray, pink and light green connectors with mechanical protection against mismatching minimize wiring errors in applications using many different circuits.



For Maximum Possibilities

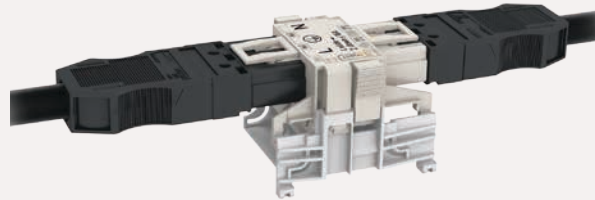
WINSTA® MIDI offers the greatest diversity of components, as well as mechanical and color coding options for fast, reliable and error-free electrical building installations.

The 770 and 771 Series Pluggable Connectors are ideal for fast electrical installations, allowing you to confidently adapt to future building technology trends. Both connector product lines include snap-in device connectors, as well as 2- to 7-pole plugs

and sockets that are touch-proof and protected against mismatching. PCB connectors, as well as distribution connectors and cable assemblies complete the range of products. The connectors accommodate 0.5 mm to 4 mm² (20–12 AWG) conductors and are rated up to 400 V and 25 A.

The WINSTA® MIDI special family is ideal for specialty electrical installation applications, preventing wiring errors via custom factory marking.

WINSTA® MIDI Linect®



Linect® T-Connectors

For Easy Lighting Installation via Linect® T-Connectors

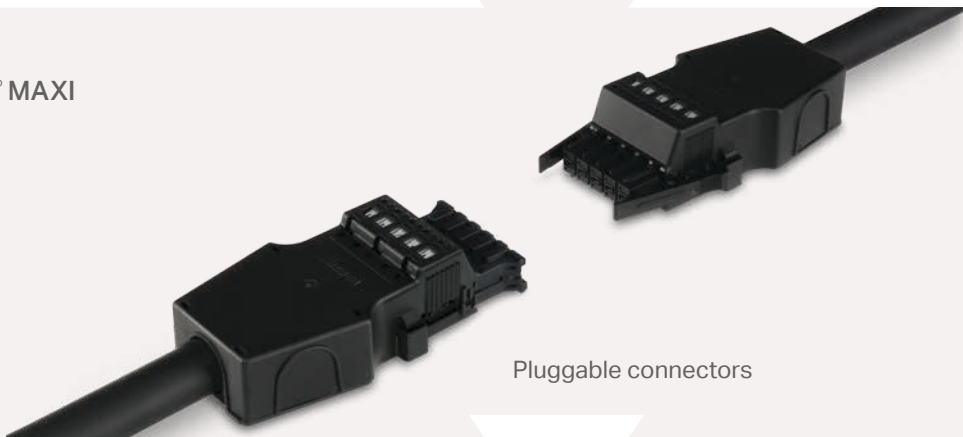
Lights offered under the Linect® name permit both conventional field-wiring and pluggable connections.

The WINSTA® MIDI family offers a wide variety of Linect® T-Connectors featuring different mechanical and color coding options for fast, safe and flexible lighting installations. Linect®-branded interfaces can be used by any lighting manufacturer worldwide and connected to any Linect®-marked

pluggable connectors – regardless of manufacturer. This simplifies every step of a project – from uniform bidding to quick installation – while reducing on-site installation times thanks to fast and easy installation.

The 2- and 5-pole WINSTA® Linect® T-Connectors are compatible with WAGO's 294 Series Linect® Lighting Connectors.

WINSTA® MAXI



Pluggable connectors

For High-Power Applications

WINSTA® MAXI stands for more power. The 831 Series Pluggable Connectors are perfect for power feed-in applications. The connectors can also be used to minimize the voltage drop over longer cable runs.

The 5-pole WINSTA® MAXI Pluggable Connector accommodates 6 mm² conductors and is rated at 35 A. It is designed for use in WINSTA® Distribution Boxes.

WINSTA® offers:

- Protection against mismatching, including single-pole mismatching
- High nominal current
- Testing while connected

THE WINSTA® FAMILIES AT A GLANCE

The Pluggable Connection System

WINSTA® RD



Cable assemblies



Plug adapters

For Round Conduits and Ducts

With a round design, the WINSTA® RD family of connectors is ready for installation in conduits with an inner diameter of 20 mm (e.g., prefabricated houses). Boasting an outside diameter of just 17.5 mm, WINSTA® RD fits – as a compact 3- and 4-pole round pluggable connector system – in

lighting and wiring conduits. This size opens up additional applications within installations. The 774 Series Pluggable Connectors are also a perfect fit with the plug adapters for Attema's hollow-wall boxes.

WINSTA® KNX



Pluggable connectors



Snap-in device connectors



T-distribution connectors



Cable assemblies

WINSTA® offers:

- Minimized size
- Push-in CAGE CLAMP® Spring Pressure Connection Technology
- Easy-to-customize coding options

For the Standardized Bus

The 893 and 894 Series Pluggable Connectors support the standardized bus systems (e.g., KNX/ EIB, LON® or ETHERNET) that are frequently used in building and industrial automation applications. These bus systems can now be connected quickly and flexibly.

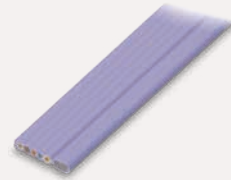
WINSTA® IDC



Supply modules



Tap-off modules



Flat cables

For Maximum Flexibility

WINSTA® IDC consists of flat cables ranging from 1.5 to 16 mm² and the associated modules that are compatible with WINSTA® MIDI and WINSTA® KNX Pluggable Connectors. WINSTA® IDC Supply and Tap-Off Modules allow connection on any location of the flat cable without prior planning – a rotation

of 120° per pole is all that is required. The 772, 893, 895, 896 and 897 Series maximize flexibility for both bus and power lines, or for bus and power combined into one cable.

WINSTA® Boxes



Distribution boxes



System boxes

For Greater Diversity

WINSTA® Distribution Boxes will 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.

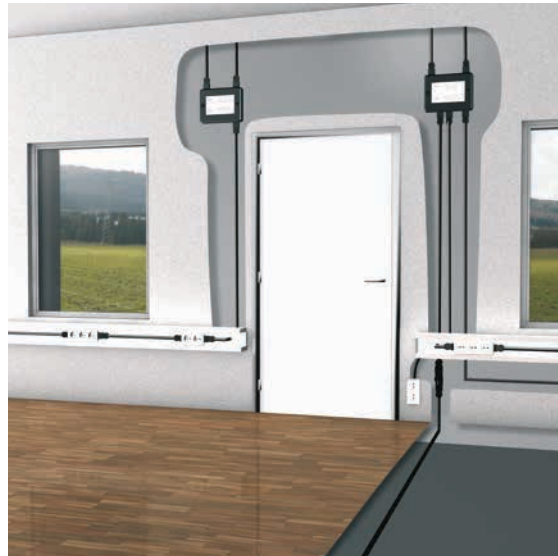
Customize the box by configuring the number of slots and assigning their functions. Complete the box with DIN-35 rail-mount components such as circuit breakers, fuses and relays.

PERFECTLY PLUGGED APPLICATIONS

WINSTA® Building Applications

Every family within the WINSTA® system features an extremely broad product portfolio to meet the power supply and signal transmission requirements of modern buildings. Individual components including plugs, sockets, distribution connectors, cable assemblies and boxes with pluggable

outputs give you all you need for fast and easy electrical installations. Additionally, the WINSTA® MINI special and MIDI special families offer various mechanical and optical coding options for clearly identifying different circuits, while allowing bus signals to be distributed via pluggable connections.



Raised-Floor Box

- IDC flat cables provide power supplies to raised-floor boxes.
- For each type of supply, a flat cable line is installed in the raised floor and fed via supply modules.
- Tap-off is performed via cable assembly that is mismatching protected.
- Floor boxes come with integrated snap-in connectors.

Cable Duct

- Power supply distribution to a 230 V mains is performed using a pre-assembled WINSTA® Distribution Box.
- Power outputs are plugged into trunking outlets via pre-assembled interconnecting cables with WINSTA® Plugs and Sockets.

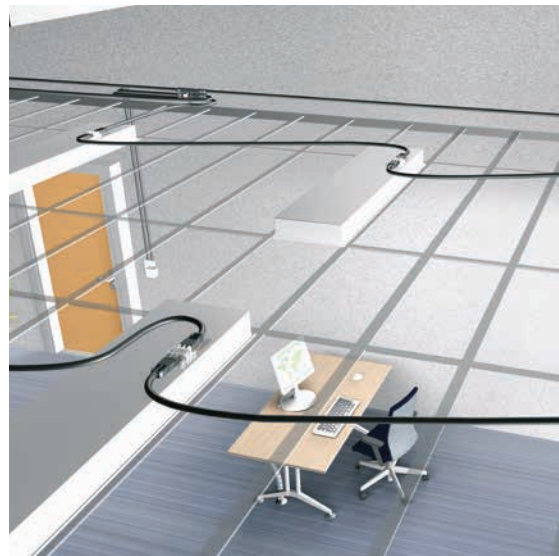


iStock.com/Johnny Greig



Sunblind Control

- A connecting cable supplies the *WINSTA*® Distribution Box for sunblind control.
- The sunblinds can also be operated via switches, as a user may expect.
- The distribution box connectors are protected against mismatching.
- The application is pre-assembled to save installation time and expedite system expansion.



Lighting

- The ceiling lights are connected to the distribution box via Linect® T-Connectors and *WINSTA*® Cable Assemblies.
- The circuit is flexible, quick to set up and can readily adapt to new requirements using the pluggable connection system.
- Linect® lights can be installed and removed just as quickly.

PERFECTLY PLUGGED APPLICATIONS

WINSTA® Applications in Other Industries

Ships

Pluggable connection of smoke detectors, balcony door contacts, speakers and lights speed up electrical installation.



@gilles.lougassi/Fotolia.com

Caravans

Electric power and lighting for the interior – fast, safe and fault-free installation



@06photo/Fotolia.com

Trains

Supports on-schedule completion and quick component replacement using pluggable outlets, displays, internal circuits, door contacts, speakers and lighting



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@Photocreo Bednarek/Fotolia.com

Elevators

Simplified installation and maintenance thanks to pluggable connections for electric power and lighting in the compartments

Shops and Trade Shows

Flexible installation that optimally provides electricity and lighting to temporary structures, or those that are frequently modified



@mahof/fotolia.com



Device Connection at Home

Ignition fans for pellet heating, connection of room control devices, electrical and lighting installation for integrated room systems (e.g., saunas)

Devices and systems in homes and other private buildings have to be started and disconnected quickly and easily. This can be done at any time via touch-proof *WINSTA*® Pluggable Connectors.

PERFECTLY PLUGGED APPLICATIONS

WINSTA® Applications in Other Industries

Retail Centers

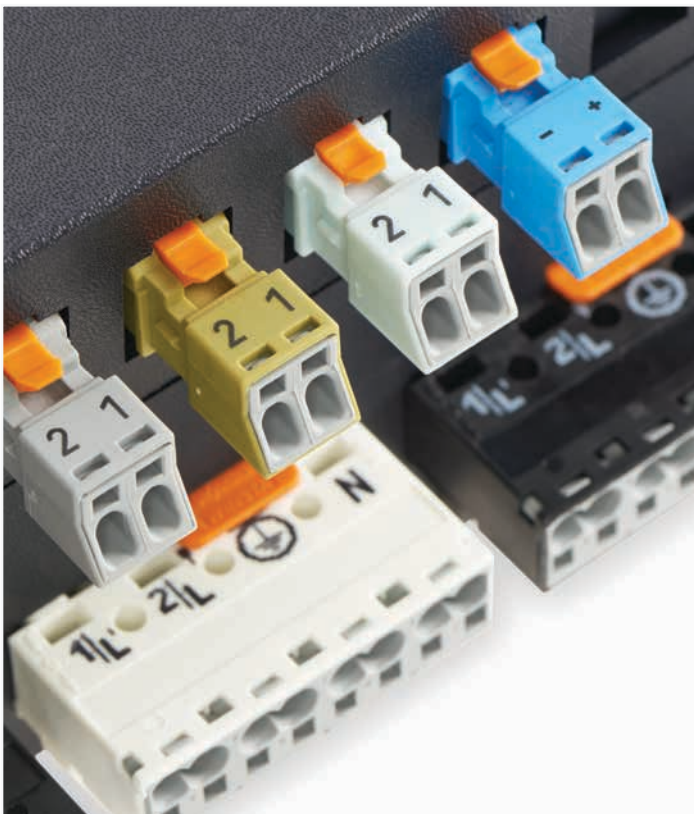
Within electrical and lighting installations in consumer electronics stores, home improvement centers, supermarkets and other high-traffic environments, pluggable electrical installation is the standard



Device Connection for Industrial Applications

Control systems, single-room controllers, presence detectors, empty bottle return machines and more

Manufacturers of industrial devices and systems are faced with a number of challenges. *WINSTA®* Snap-In Device Connectors permit fast, safe and error-free commissioning.



SUCCESS THROUGH EXPERTISE

Project Planning with WAGO

As a professional with industrial experience, you know firsthand how rapidly technology has developed over the last few years. Of course, this trend also applies to the planning of customer-specific industrial systems, energy management, building installations and building automation. The technical features being demanded are incredibly more

extensive, complex and sophisticated. Implementing the specific demands for cross-building control systems at the highest technical level is usually only possible via custom-tailored, complete concept solutions.

Our team of specialists works hand in hand with you on this.



Together with your local WAGO contact (Project Sales/WAGO Sales Office) we will assist you with your project planning. Based on the project documentation you submit, we will provide you with expert advice and consultations with technical specialists who will help develop concepts into sophisticated solutions.

Services

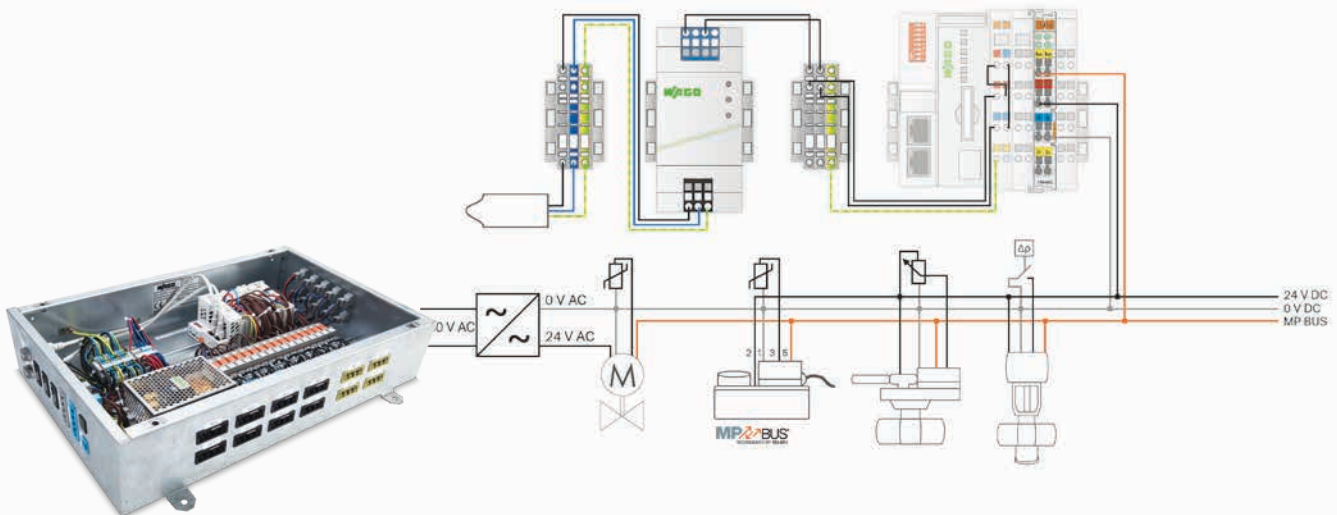
- Hardware design based on construction requirements (product specifications, construction drawings, data point lists, topologies and other considerations)
- Cross-building, individual, overall concept
- Concept development based on standards, directives and CE conformity
- Analyses and calculations (thermal loads, etc.)
- Generation of drawings, wiring diagrams and network diagrams
- Testing and selection of third-party components

Custom Solutions

- System distribution boxes and *flexROOM*® Distribution Boxes (incl. application)
- Industrial distribution boxes and control systems
- *WINSTA*® (distribution box, system box, pluggable installation)

Applications

- Electrical installation and automation (fire protection and other areas)
- Lighting and sunblind systems
- HVAC controllers (single-room control, etc.)
- Industrial controllers



Take advantage of the benefits offered by our team that has extensive experience in project planning for technically demanding and complex applications. We have technical specialists in electrical systems, HVAC, industry and pluggable installations all at one location, enabling us to quickly and flexibly react whatever demands you may have.

Your Benefits at a Glance

- No interface losses, thanks to building-wide solutions that save costs
- Provision of all relevant documentation
- With you for every step of planning and implementation
- Ensured compliance to standards and conformity through extensive quality assurance and CE marking
- Well-rounded team of specialists
- Industry-first engineering concepts and designs
- On-site booking by sales specialists

Have We Got Your Attention?

Contact our staff in project sales or at the sales office near you.

Would You Like to Get Started Right Away?

Send your project documentation directly to our central, digital project in-box:

Email: info.projektservice@wago.com

GREEN IS IN

WINSTA® for Green Buildings

Sustainability is becoming more and more important within the building industry. Optimizing the life-cycle performance of buildings significantly contributes to a marked – and sustainable – improvement to the quality of life for occupants, while providing added value to operators. 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. This is why modern buildings are characterized by their use of environmentally friendly and energy-efficient products that provide high levels of comfort. And these align with the three pillars of sustainability: economy, ecology and social aspects.



Ecological Sustainability:

Ecological sustainability denotes environmental stewardship and the long-term conservation of resources. Core to this are greener production methods, minimized waste and the use of environmentally friendly materials.

- WAGO actively promotes product- and company-related environmental protection. Using WAGO WINSTA® components supports sustainable electrical installations thanks to highly flexible setups that can be modified, enabling the strategic building planning that preserves resources.

Economic Sustainability:

Sustainably designed buildings offer financial benefits related to operating and incidental costs. The additional costs for these investments are usually amortized quickly. Operating costs in particular can be minimized through greater efficiency.

- Thanks to WAGO WINSTA®, both subsequent costs for maintenance and costs for the potential disposal of installation material can be saved. This modern connection system ensures a high degree of flexibility for any potential change in building usage. Custom-tailored retrofits or modification of the electrical installation can be efficiently performed at any time.



Green WAGO roofs

Social Sustainability:

Ensuring occupants' satisfaction with a building is essential for social sustainability. And green buildings can achieve this by optimizing room and workspace layouts.

- Harmonious room design depends, among other things, on an open design for ceilings, walls and floors. This open floor plan relies on versatile electrical connections for lighting, outlets and switches. WAGO *WINSTA*® enables flexible routing of all cables in suspended ceilings, hollow walls and raised floors. This leaves designers with maximum space and "elbow room" for optimal room and workplace layouts. Modules for building automation can also be easily integrated and connected as pluggable units; these modules can then be used by individual occupants for controlling ventilation, sun protection, lighting and room temperature.

One of the main topics in this area is the certification of buildings, as sustainability has become a sign of quality and factors heavily into success among competitors. WAGO building automation products, such as the *WINSTA*® Pluggable Connection System, make a vital contribution to the sustainability of buildings and have a positive impact on the overall impression a building makes.

Everything from a single source – WAGO offers energy-efficient and sustainable products and solutions for:

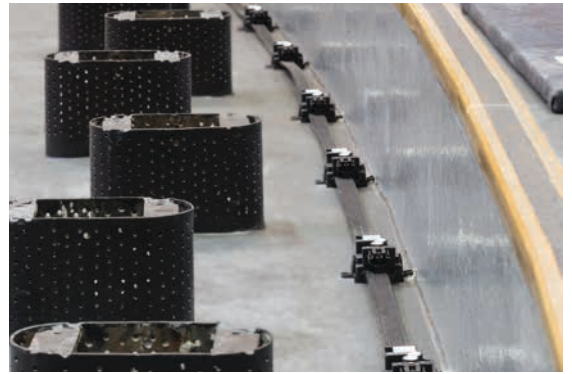
1. Room installations
2. Room automation
3. HVAC
4. Energy management

CUSTOMER APPLICATIONS



Münster Municipal Theater

The Münster municipal theater was the first theater constructed in Germany after World War II. As part of its renovation, the numbering for seat lighting was modernized using WINSTA®

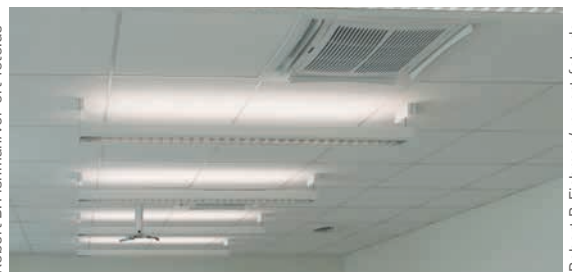
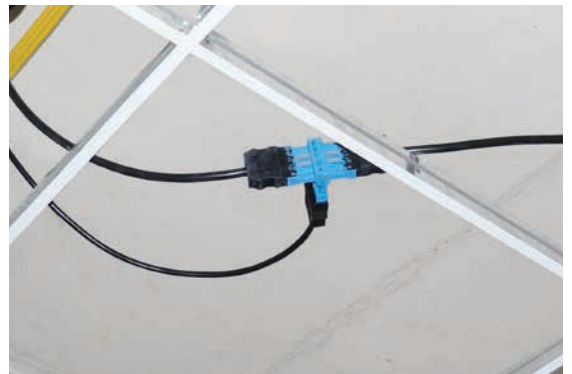


Pluggable Connectors. The emergency lighting was also revamped using WINSTA® MINI. The sparkling results are impressive.



Campus Minden

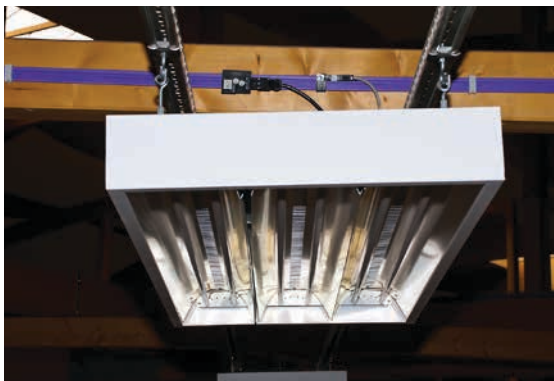
The new building for the Minden Campus of Bielefeld Technical College is a pioneering project for two reasons: It not only integrates cutting-edge energy and automation technology,



Robert B. Fishman/vor-ort-foto.de

Robert B. Fishman/vor-ort-foto.de

but is also a prime example of cross-discipline, integrated construction. Building automation was completed quickly, safely and error-free, thanks to WINSTA® Pluggable Connectors.



Velodrome Suisse

The Velodrome Suisse in Grenchen, Switzerland is a shining example of cutting-edge building technology. *WINSTA*® components make the right connections for lighting – and for future flexibility: The training facility for future cycling champions was constructed in a record time of only 14 months. The compact *WINSTA*® Pluggable Connection System was used for connecting and powering

approximately 280 lights. This system markedly simplifies the work of the electrical installers during installation and impresses with its flexibility. Bus and power tap-off is possible at any time from anywhere. It can also be easily modified at a later time. This guarantees the stability of the entire lighting network under the roof of the velodrome.

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