



# PLUGGABLE SOLUTIONS

MODULAR PREFAB CONSTRUCTION

**FAST –  
SUSTAINABLE –  
MAINTENANCE-  
FREE**

## Topics in This Issue

Modular Building

–

Prefab Construction

–

WINSTA® MIDI

–

WINSTA® Cables

–

WINSTA® Boxes

–

Five Easy Steps for Planning

–

WINSTA® Partners

–

Outlet and Switch Installation

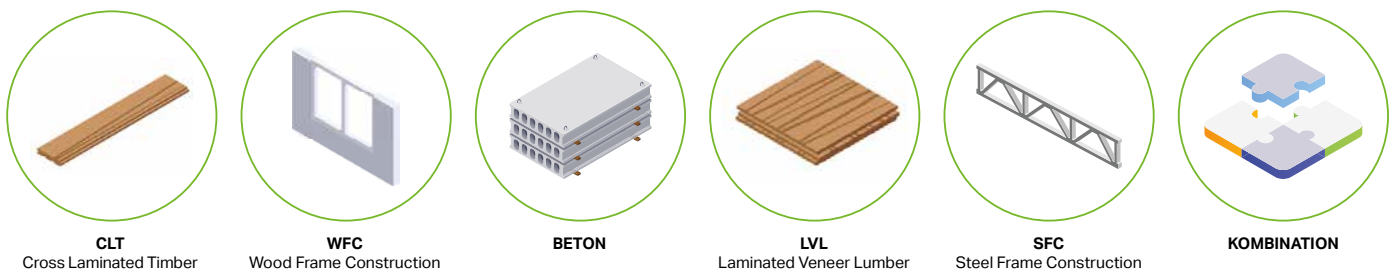
# MODULAR CONSTRUCTION

## A BUILDING-BLOCK APPROACH

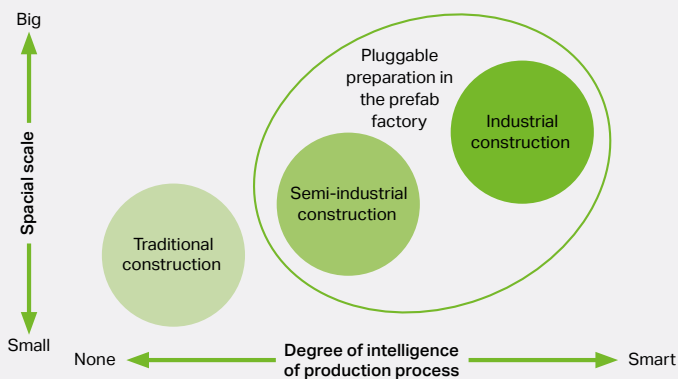
Modular construction consists of controlled production of so-called modules – prefabricated building components, usually of a standardized design – followed by modular assembly on the construction site to form a complete building. This modern construction approach offers many advantages: It makes the construction process faster and keeps it on schedule, lowers costs and keeps them predictable, maintains consistent production conditions, reduces waste on the construction site and offers a very high degree of flexibility in the subsequent lifecycle of the building. The efficient use of resources also minimizes environmental impacts, supporting sustainable construction.

Modular construction is used in many different construction projects – from residential buildings, to office buildings, to educational institutions. This construction method is especially attractive when the completed modules are standardized and produced in series – referred to as “serial construction.”

### Pluggable Installation with **WINSTA®** for Use in Prefab Construction, Building Elements, Modules and All Buildings



The use of pluggable connections is not limited to the different building materials and construction products that are used to make a building element or module in the factory.



With Traditional construction, the entire construction process takes place on the construction site. But in semi-industrial construction and industrial construction, production mainly takes place in the prefab factory where the pluggable **WINSTA®** cabling system is mounted during the production of the building elements or 3D modules.

MOBILE HOMES CARAVANS

RESIDENTIAL BUILDINGS

CHALET HOUSES APARTMENTS

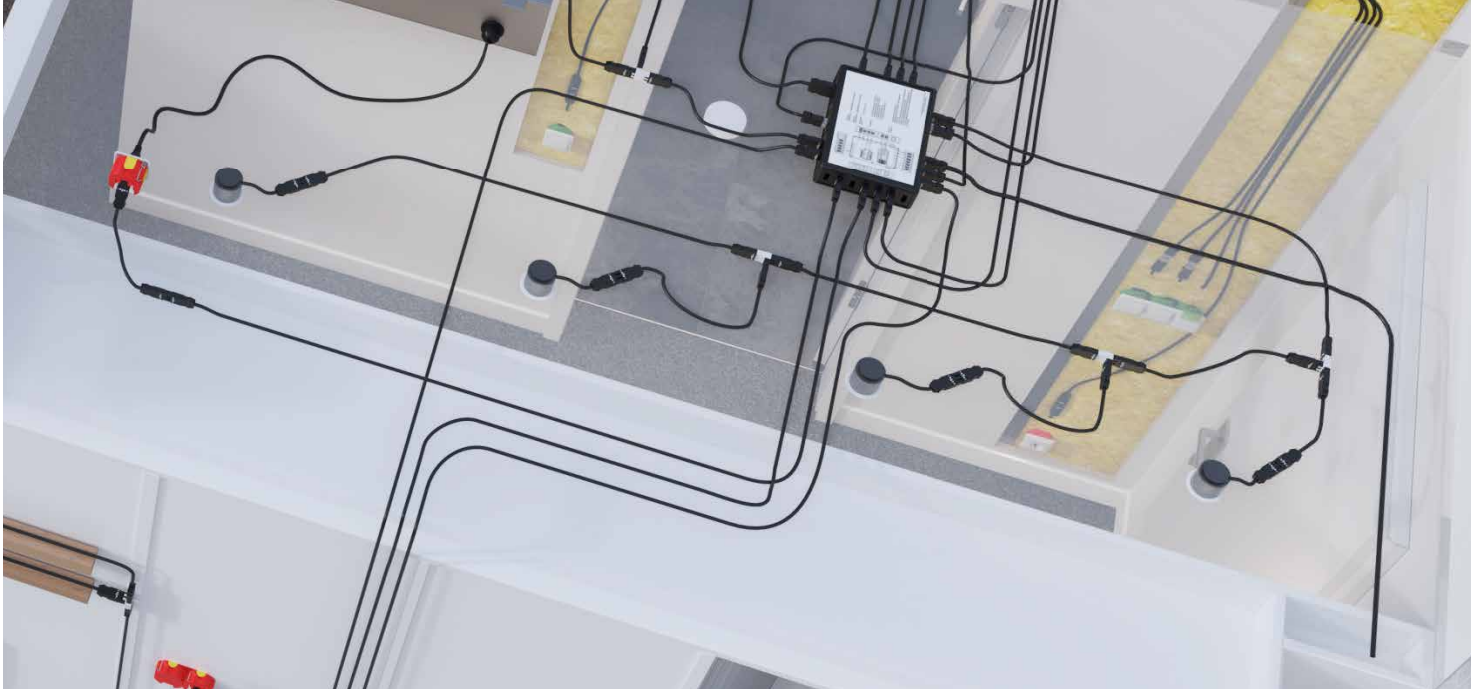
**WAGO** PLUGGABLE SOLUTIONS

SCHOOLS RETAIL

UTILITY BUILDINGS

Office buildings HOTELS HEALTHCARE





# PREFAB CONSTRUCTION – PLUGGABLE SOLUTIONS WITH **WINSTA®**

## 10 GOOD REASONS TO CHOOSE THIS INSTALLATION ALTERNATIVE:

### 1. **Faster Installation**

Pre-assembled pluggable installation, integrated into the production process, simplifies and accelerates the process

### 2. **Adaptability**

Fast, flexible building use modifications let you to respond to changing demands on buildings quickly and easily.

### 3. **Minimum Downtime**

Pre-planning and pre-assembly ensure fast, effective electrical installation and reduce construction time.

### 4. **Modularity and Expandability**

Pluggable installation makes it easy to seamlessly integrate new modules and technologies for sustainable building development.

### 5. **Cost Optimization**

Precise planning and pre-assembly prevent surprise expenses and reduce labor costs and material waste, especially in serial construction.

### 6. **Sustainability**

Pluggable connectors and cables can be reused, which increases module reusability and reduces resource consumption.

### 7. **Reliability and Troubleshooting**

This approach minimizes the risk of wiring errors and simplifies maintenance in modular structures.

### 8. **Modular Versatility**

Ideal for construction of temporary or permanent multifunctional buildings

### 9. **Easy Maintenance**

WAGO's WINSTA® Pluggable Connection System offers a maintenance-free solution for pluggable building installation.

### 10. **Use across Industries**

Ideal for a wide range of modular construction materials and projects used for manufacturing components or modules in the factory.

# PERFECTLY PLUGGED ELECTRICAL INSTALLATIONS – WITH **WINSTA®** MIDI

WINSTA® MAKES ELECTRICAL INSTALLATION  
PLUGGABLE, FAST, SAFE, RELIABLE AND  
ERROR-FREE



Sockets & Plugs  
for Lighting and Power



Sockets & Plugs  
for Switches



Strain Relief Housings



Distribution Connectors  
for Lighting and Power



3-/5-Way  
Power Distributors



Distribution Connectors  
for Switching Lighting



Snap-In Connectors



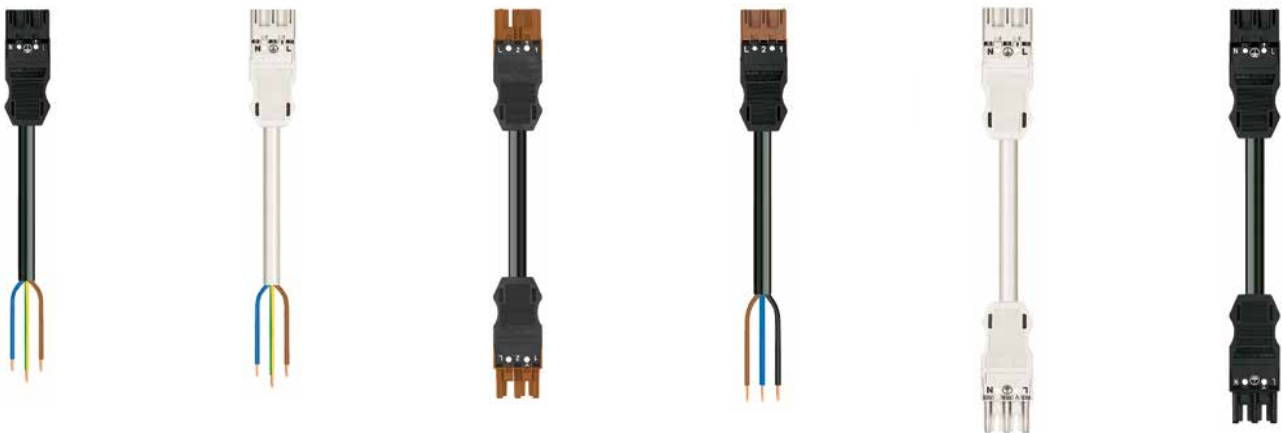
Plugs & Sockets  
for Power Distribution



Plugs & Sockets  
for Power Distribution

# **WINSTA® – A COMPLETE RANGE OF PLUGGABLE CONNECTORS WITH PRE-ASSEMBLED CABLES –**

THE PRE-ASSEMBLED CABLES ARE AVAILABLE FOR MANY RANGES IN THE WINSTA® PLUGGABLE CONNECTOR PORTFOLIO AND OFFER FAST, SAFE, RELIABLE, ERROR-FREE CONNECTION



## **Benefits of WINSTA® pre-assembled cables:**

- Pre-assembled for easy, convenient installation
- Maintenance-free
- Reusable, and therefore sustainable
- Precisely fitting solutions reduce cable waste
- Safe, reliable connections
- Time savings:
  - no further on-site cable processing required
- Fast, simplified installation
- Lower skilled labor costs
- Plug-and-play solutions

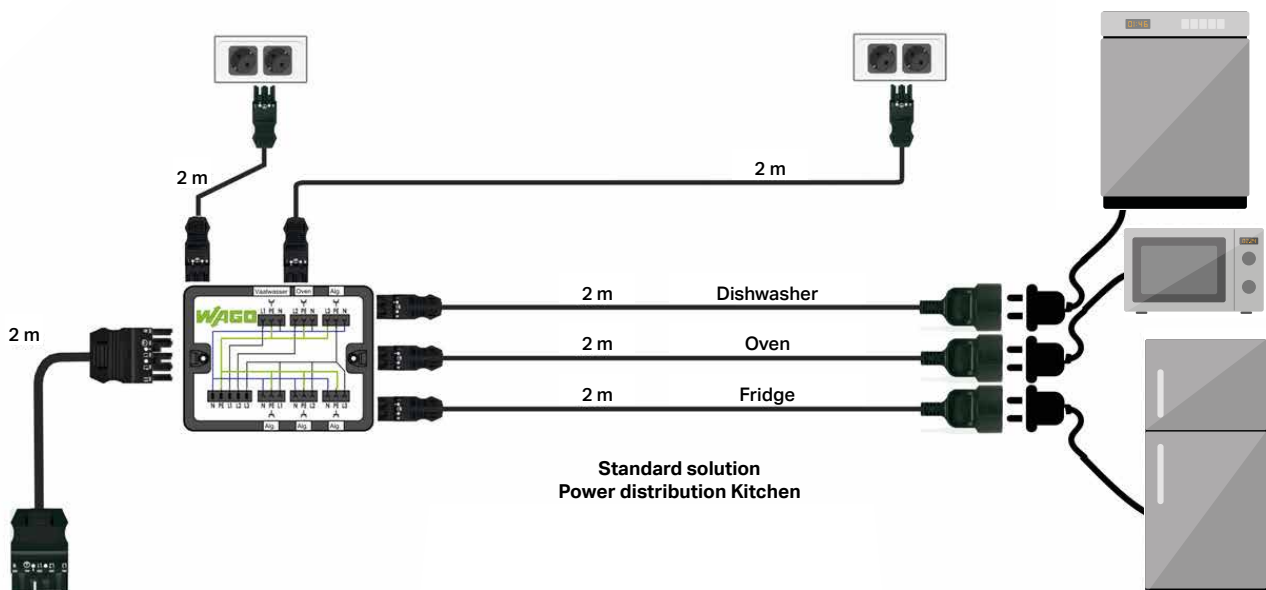


# UNLIMITED SOLUTIONS FOR A LARGE NUMBER OF APPLICATIONS – WITH THE **WINSTA®** DISTRIBUTION BOX

WINSTA® DISTRIBUTION BOXES SUPPORT A COMPREHENSIVE RANGE OF APPLICATIONS FOR BOTH DISTRIBUTION AND SWITCHING ON A LARGE SCALE



Distribution box



Standard solution  
Power distribution Kitchen

# FIVE EASY PLANNING STEPS IN MODULAR PREFAB CONSTRUCTION



## Step 1 – Engineering

Describe the system functionality you need with reference to modularity and structure and identify the most efficient solution



## Step 2 – Integrated Solutions

Determine the most effective integrated solution for the WINSTA® wiring system in terms of the building products, the module structure and the production method



## Step 3 – Generic Items

Decide which WINSTA® system wiring products and WINSTA® partner products to use to limit the variety of products required



## Step 4 – Standardization

Standardize WINSTA® system wiring products to keep the variety of products used as small and/or effective as possible



## Step 5 – Final Delivery

The WINSTA® wiring system and WINSTA® partner products are delivered to the prefab construction plant, ready for direct pluggable installation in the production process.

# FIVE EASY STEPS FOR ORDERING AND INSTALLING **WINSTA®**

WAGO's technical support staff is ready to assist all our customers with advice and guidance – from selecting the right product, to telephone support during commissioning, to on-site troubleshooting. Customers benefit directly from the knowledge of WAGO experts to achieve their goals faster.

## STEP 1 CONTACT WAGO



Contact Project Sales to discuss options for using WINSTA® in your projects.



## STEP 2 DISCUSS PROJECT DETAILS



Share your project details with us.



## STEP 3 COLLABO- RATION



Our planning team will use your information to create a detailed plan tailored to your project.



## STEP 4 ORDER THE RIGHT WINSTA® ITEMS



Order the WINSTA® products you need for your project.



## STEP 5 HASSLE-FREE INSTALLATION



Use the WINSTA® products at your construction site for fast, error-free implementation of your electrical installation.





More information at:  
[www.wago.com/winsta-system-partners](http://www.wago.com/winsta-system-partners)

# WINSTA®-PARTNERS

WINSTA® allows pluggable connection, making electrical installation fast, safe and error-free. Many well-known companies rely on our pluggable connection system for electrical installation and have already equipped their product ranges with WINSTA® connections. You can find an overview of our partners here.

## Our Partners' Benefits for You

- Availability of comprehensive system solutions
- Coordinated products
- Direct communication between project partners

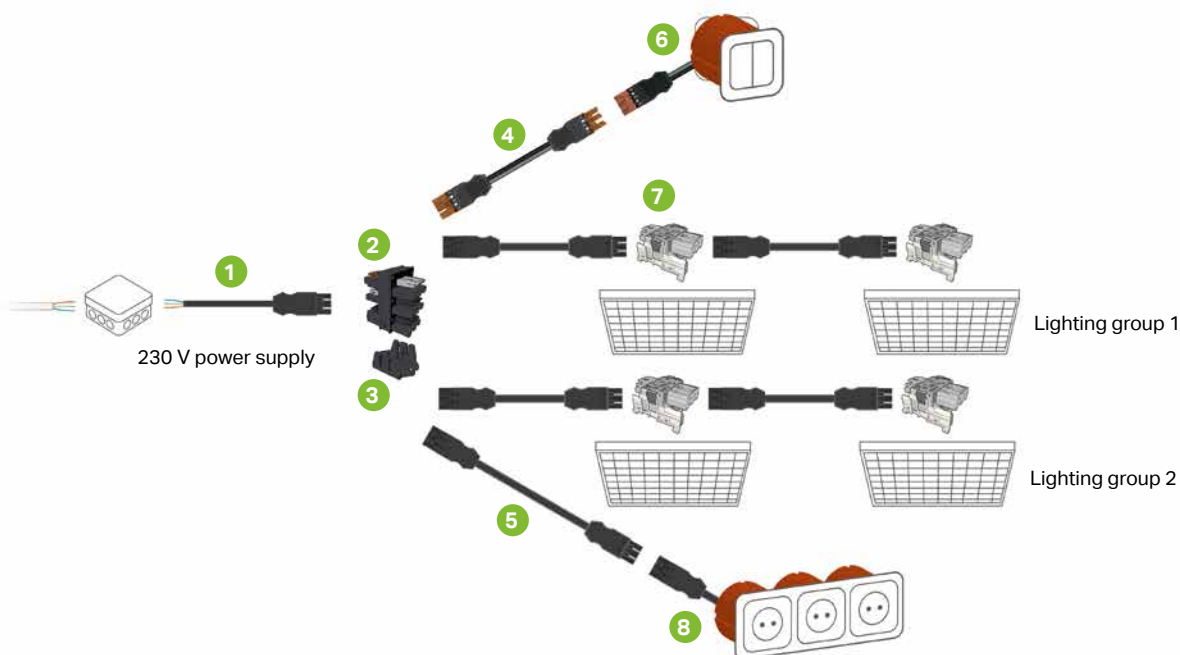

WINSTA  
Partner



# OUTLET AND SWITCH INSTALLATION

## PLUGGABLE ELECTRICAL INSTALLATION SIMPLIFIES BUILDING INSTALLATION

WINSTA® is ideal for use in infrastructure buildings, such as office spaces, hotels, schools and daycare centers, as well as hospitals and retirement homes. In these applications, the electrical installation requirements are usually the same in different rooms or on different floors. WINSTA® makes planning replicable system solutions quick and easy and, thanks to a wide range of suitable system partner products, supports fully pluggable installation on site, all the way to the light or the outlet.





## Cable Assemblies

Pos.	Item Numbers	Pre-Assembled Interconnecting Cable
5	771-9993/006-X01	Pre-assembled interconnecting cable; Eca; socket/plug; 3-pole; coding: A; H05VV-F 3G 1.5 mm <sup>2</sup> ; X m; 1.5 mm <sup>2</sup> ; black
4	771-9973/006-X05	Pre-assembled interconnecting cable; Eca; socket/plug; 3-pole; coding: S; H05VV-F 3 × 1.5 mm <sup>2</sup> ; X m; 1.5 mm <sup>2</sup> ; brown
Pos.	Item Numbers	Pre-Assembled Connecting Cable – Socket
1	771-9993/106-X01	Pre-assembled connecting cable; Eca; socket/open-ended; 3-pole; coding: A; H05VV-F 3G 1.5 mm <sup>2</sup> ; X m; 1.5 mm <sup>2</sup> ; black
Pos.	Item Numbers	Pre-Assembled Connecting Cable – Plug
8	771-9993/206-X01	Pre-assembled connecting cable; Eca; plug/open-ended; 3-pole; coding: A; H05VV-F 3G 1.5 mm <sup>2</sup> ; X m; 1.5 mm <sup>2</sup> ; black
6	771-9973/206-X05	Pre-assembled connecting cable; Eca; plug/open-ended; 3-pole; coding: S; H05VV-F 3G 1.5 mm <sup>2</sup> ; X m; 1.5 mm <sup>2</sup> ; brown

\* You can find cable assemblies in other lengths, cross-sections and fire classes in the eShop or catalog, or you can contact our sales representative directly.



## Plugs and Sockets for Self-Assembly

Item Numbers	Plugs and Sockets
770-103	Socket; with strain relief housing; 3-pole; coding: A; 4 mm <sup>2</sup> ; black
770-113	Plug; with strain relief housing; 3-pole; coding: A; 4 mm <sup>2</sup> ; black
770-1363 + 770-503	Socket; 3-pole; coding: S; 4 mm <sup>2</sup> ; brown + strain relief housing; 3-pole; for 2 cables; 8 ... 11.5 mm; 55 mm; black
770-1373 + 770-503	Plug; 3-pole; coding: S; 4 mm <sup>2</sup> ; brown + strain relief housing; 3-pole; for 2 cables; 8 ... 11.5 mm; 55 mm; black



## Distribution Box

Pos.	Item Numbers	Distribution Box
2	770-637	Distribution connector for switches; single-pole switch and series circuits; 3-pole; coding: A/S; 1 input; 5 outputs; black
7	770-6223	Linect® T-Connector; 3-pole; coding: A; 1 input; 2 outputs; white
3	770-623	Mounting plate; 3-pole; for distribution connectors (except T-distribution connectors); plastic; black

\* You can find other distribution connector versions in the eShop or catalog, or you can contact our sales representative directly.



## Additional Accessories

Item Numbers	Accessories
210-719	Operating tool; 2.5 × 0.4 mm blade; with a partially insulated shaft; to operate both clamping units and locking levers
770-111	Locking lever; for flying leads; tool operated; black
770-131	Locking lever; for flying leads; tool operated; white
770-310	Mounting adapter; 2- to 5-pole; for flying leads; black

# Contact

## Project support:

Our technical sales support offers consultation and project planning services for designing building automation and installation. Our experienced team of professionals will be happy to help you implement your projects.

## Planning and project design:

- Concept execution
- Application design
- Component selection
- Quote generation

## We support you with:

- Advice during the construction project planning phase from experts with years of project experience
- Tailored solutions for large properties to ensure their technical and commercial success
- Technical support for implementing building projects

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