



## COLLABORATION AND HOLISTIC DESIGN

Inclusion of *services* at initial design phase for optimal delivery and life cycle cost



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# WHY USE A COLLABORATIVE DESIGN PROCESS?

- Specific to offsite building is that the initial design needs to take in to account not only construction, but also delivery and install
- Collaborative design encompasses structure & services from the outset
- Volumetric construction includes both design for manufacture (dfm) and design for assembly (dfa)
- Connected technology solutions are planned to work together from the earliest concept design stage
  
- *Offsite construction encourages a move away from the compartmentalised design approach*
  
- *Volumetric construction can break the silos*

# HOLISTIC PLANNING FOR OPTIMAL DELIVERY AND LIFE CYCLE COST CONTROL



- Building services and technology integration shouldn't be a 'bolt-on' at the installation stage.
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- Delivery in the same manner, with the same advantages, that are apparent with the offsite construction model.
- Plan with connected technology, solutions and hardware in mind.
- Flexibility designed in.
- Enables contracted support services to be defined prior to delivery.

# THE PRODUCTS AVAILABLE

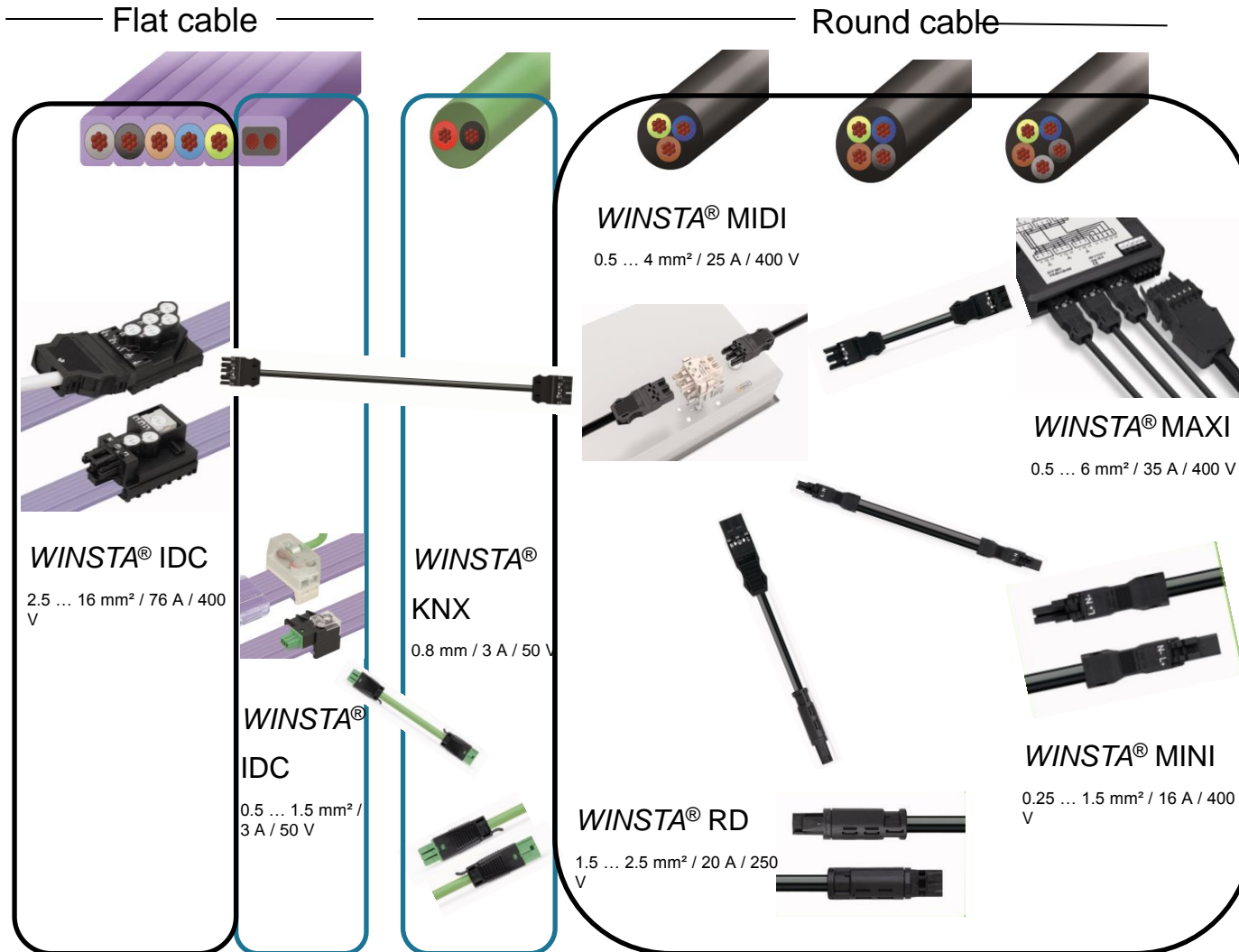
Completing the modular construction offer



# WINSTA® PLUGGABLE CONNECTION SYSTEM

*Fast, reliable, tried and tested millions of times!*

Protection against mismatching  
 Push-in CAGE CLAMP®  
 Approval according to IEC 61535/ IEC 61984

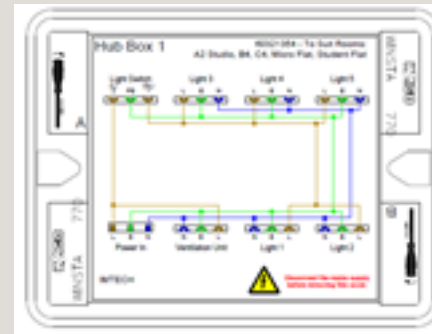


# PRE-WIRED PRODUCTS

The individual WINSTA® distribution box



- DISTRIBUTION BOXES CAN BE PURCHASED PRE-ASSEMBLED OR FOR ASSEMBLY BY THE USER.



# WAGO MODULAR WIRING

Offsite pre-assembly or delivered fully tested to factory or site

- The WAGO concept of modular wiring is the compliment to volumetric construction.
- Factory manufactured small power, lighting distribution and **control wiring** solution. It is manufactured and 100% tested in a controlled environment.
- It can be easily reconfigured to accommodate changes to the electrical installation during the life of the building without the major upheavals associated with traditional wiring installations.
- The complete modular wiring system is **maintenance free** as it uses clamp technology.
- The modular wiring system can be prefabricated, replacing traditional on-site cabling.
- WAGO modular trunking and wiring systems virtually eliminate waste during the installation as all cables & components are accurately measured and removes the need for cutting on site.







## CONCLUSION

- Planning from early concept stages
- Collaborative design that considers construction, delivery and support
- Knowledge of solutions and products available
- The right solutions, fully integrated:
  - Connectivity
  - Automation
  - Compatibility
  - Enabling technology

**WAGO**

The logo features the word "WAGO" in a bold, green, sans-serif font. A green double-headed arrow is superimposed over the letter "A", pointing both upwards and downwards.