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Minimized: Pluggable PCB Connection Technology

WAGO's WINSTA® MINI line of PCB connectors has been downsized to simplify electrical installations within buildings via pluggable connections.

Increasingly complex building technology is driving the need to make installations as simple, flexible and as safe as possible. And, pluggable connection systems like WINSTA® play an important role in addressing these needs. In fact, WAGO has expanded its proven WINSTA® MINI family with models for direct integration onto the PCB. This simplifies the installation of electrical appliances in buildings via pluggable connections (e.g., air-conditioning, ventilation, security and communication systems, as well as pump, lighting or sunblind control systems), while minimizing size.

WINSTA® enables the electrician to interconnect all electrical components within a building. Thus, this system forms the electrical interface between power supply/distribution and electrical loads (e.g., lights), while simultaneously including data processing. Previously, the housings of devices for building technology had to be customized to fit pluggable connectors (e.g., with snap-in connectors), while wiring was performed manually. Now, the new WINSTA® MINI pluggable PCB connectors can be directly soldered to the PCB, significantly streamlining and economizing the process.

The extremely low-profile connectors feature a nominal current of 16 A and a pole pitch of 4.4 mm. WAGO's WINSTA® MINI pluggable PCB connectors are available in the following versions: 2- and 3-pole, 250 V rating; 4- and 5-pole, 400 V rating. Both plugs and sockets are available in straight and angled versions. This creates new possibilities to integrate a wide variety of functions into a building with pluggable connections.

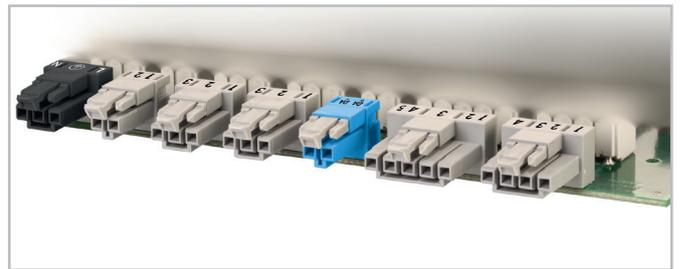
In order to maintain a high level of safety – even with an increasing number of different electrical circuits – the pluggable connectors are available with several mechanical coding options. WINSTA® MINI with coding A (black or white) is suitable for 230 V networks. Coding B (gray, light green and pink) for customized pole markings can be printed at the factory to suit customer requirements. An additional model with coding I (blue) is available for dimming functions (e.g., with DALI lights).

Products in online catalog by October 2014.

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WAGO's WINSTA® MINI pluggable connectors can now be directly soldered onto the PCB – this saves space, time and money, while allowing electrical appliances to be simply plugged in.
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The WINSTA® Pluggable Connection System

WINSTA® is WAGO's pluggable connection system that is ideal for building installations. It forms the electrical interface that links power supply and distribution to electrical loads (e.g., lights) and encompasses data processing (bus lines in building automation). With the MINI, MINI special, MIDI, MIDI special, MAXI, RD, KNX, and IDC product families, WINSTA® provides the ability to simply plug electrical installations and components together – making installs safe, error-free and quick. WINSTA® – perfectly plugged!