

# 02/19

## Issue Preview

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in March:

- Climate control
- Casings
- Cables
- Plug connectors
- Relays

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# EDITORIAL PREVIEW

## Climate control

### Thermal simulation

In electronic components, too, there is an increasing trend towards high performance within a smaller space. This involves an unpleasant side effect, however: the higher power loss generates more heat to be dissipated. For this purpose there are numerous suitable cooling elements with passive or active cooling.

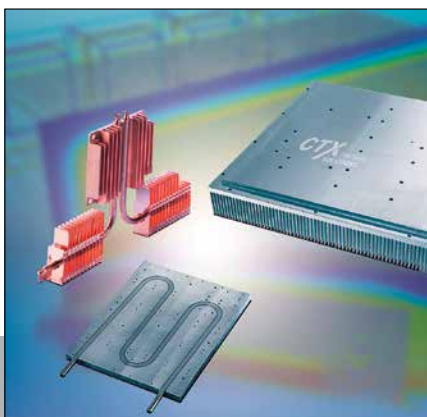
### Stainless steel cooling devices

The stainless steel variants of the Blue e+ cooling device series meet protection class IP55 and make use of energy-efficient hybrid technology. They are available with five different levels of cooling capacity from 1.6 to 5.8 kW. Their stainless steel housing mean they are suitable for applications where a high level of corrosion protection is needed.

## Casings

### Configure-to-order service

Assembled products save time – when ordering, warehousing and of course during the production process as well. Thanks to the appropriate software (WMC) and a highly efficient delivery service, the configure-to-order service generates a quotation for customers in just a few minutes. The individual product is then supplied within five days, from batch size 1.



## Cables

### Fiber-optic networks

Everyone is talking about Industry 4.0. This term refers to the technology upheaval that is going on in production engineering today – a move towards intelligent factories in which machines and products are interconnected. The implementation of IoT projects requires fast and reliable broadband connections. Ultimately, fiber-optic technology is a must.

### Worldwide in real time

The networking of machinery enables companies to increase their productivity significantly. The open interface SCS open link provides the basis for high-performance bidirectional data transmission via a single cable. The article illustrates the benefits of this interface based on a trade show demonstration.

### Reducing complexity

Will increasing connectivity in the industrial sphere result in greater complexity in signal detection, connection technology and wiring? Not necessarily. Solution packages consisting of sensors, plug connectors, cables, distributor boxes and software modules for actuator control can in fact reduce complexity.

## Plug connectors

### The colorful world of plugs

Pole number, plating and orientation, soldering technologies, attachment and mounting aids – there are a wide range of options available for plug connectors. As a result, a single product family can easily have more than 1,000 variants – so it's hardly surprising that not all



manufacturers offer all of them as a standard version. But customer-specific fabrications can be worthwhile.

### Wire end ferrules: yes or no?

Today's market for industrial electrical connection technology is rich in innovative technologies that offer the user lots of benefits. But many continue to stumble over an apparently trivial detail: is it advisable or even necessary to have a wire end ferrule on a conductor connection?

### Current carrying capacity of 10 A

The M300 family comprises robust cable-to-board, board-to-board and cable-to-cable power connectors. These units are available in the contact formats 3, 6 and 10 with a wide range of cable assembly options. Thanks to the patented 4-finger contact design, connection integrity is always preserved – even in the event of shock load, vibrations or other mechanical impact.

## Relays

### For smart homes

Regulators, sensors, switch actuators, timers, light controllers and other control units, motors, pumps, warning systems, access control – all these serve to automate building technology so as to enhance both convenience and safety. Relays continue to provide an excellent solution here.

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