

COMBICON compact

PCB connection methods for building communication systems and telecommunications

Small, powerful and in the typical green

The COMBICON compact series comprises solutions with spring-cage and screw connection methods for almost all types of applications in building automation and telecommunications. This range of products is divided into four areas:

COMBICON compact with screw connection

With the PT range, Phoenix Contact provides an entirely new development: a series of terminal blocks with screw connection and, compared with others in its class, exceptional clamping space. The various PCB terminal blocks and codable connectors are versatile and particularly suitable for large-scale serial products and price-critical applications. Thanks to its five plug-in options, the new PT 2.5 plug-in system offers unprecedented flexibility.

COMBICON compact with spring-cage connection

The proven and easy-to-operate spring-cage double connection is available in pitches of 3.5 and 5.0 mm as a horizontal, angled or vertical version. While the FK-MPT series has extremely compact dimensions, the new PTDA series is a combination of high terminal capacity and an attractive design.

The PTSA range with its small pitches and the angled spring-cage connection provides a space-saving and easy-to-operate solution that is particularly suitable for devices for lighting technology. The PTSA and PTDA connection series are also available with color coding on request. It is also possible to provide blocks with mixed pitches.

As an FO PCB terminal block, the FOPT 2.2 provides a fast spring-cage connection even for polymer fiber optics.

COMBICON compact headers

The pin strips to match the pluggable versions are made of high-temperature resistant material and can therefore also be used in the reflow solder process (THR). Machine-capable Tape-On-Reel packing is available on request.

The highlights

PT series, PTDA series

Options

THR, color coding, other options

FK-MPT series

PCB terminal blocks with spring-cage double connection up to $2 \times 0.5 \text{ mm}^2$

PTDA series

Angled PCB terminal blocks with spring-cage double connection up to $2 \times 2.5 \text{ mm}^2$

PTSA series

Angled spring-cage PCB terminal blocks up to 1.5 mm^2

PT 1.5 series

PCB terminal blocks and conn. with a screw connection up to 2.5 mm^2

PT 2.5 series

PCB terminal blocks with a screw connection up to 4 mm^2

PT 2.5 plug-in system

Multi-plug-in system with a screw connection up to 4 mm^2

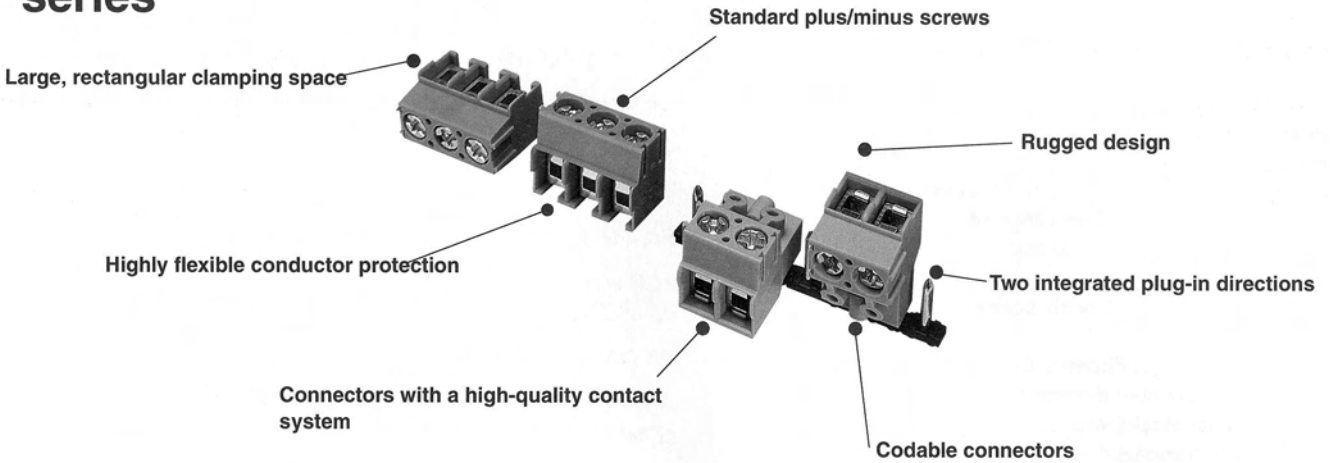
PST series

Pin strips for COMBICON compact connectors

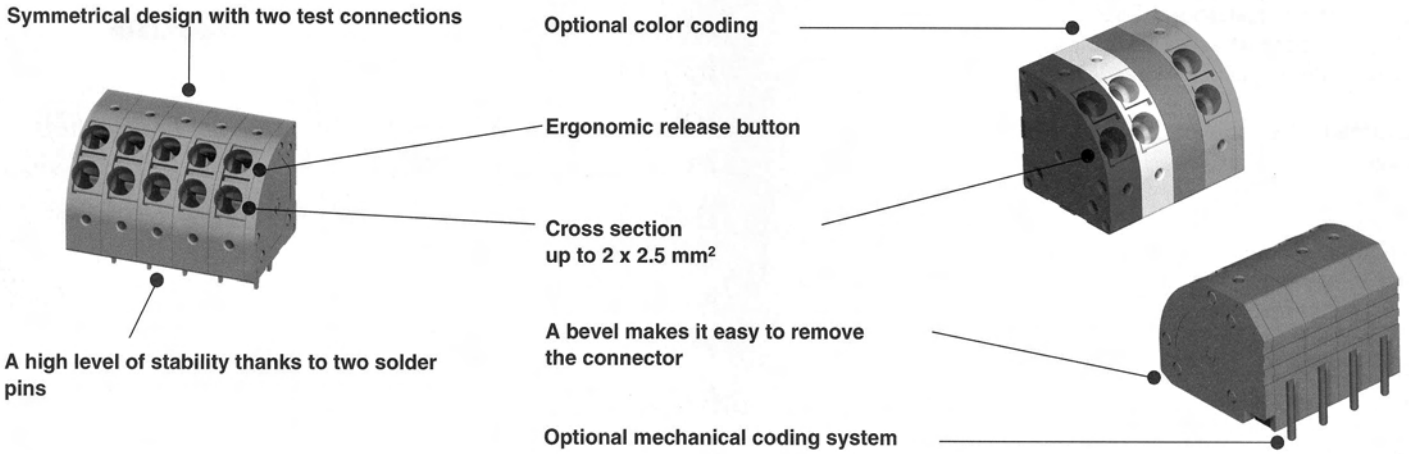
FOPT series

Fiber optic PCB terminal block

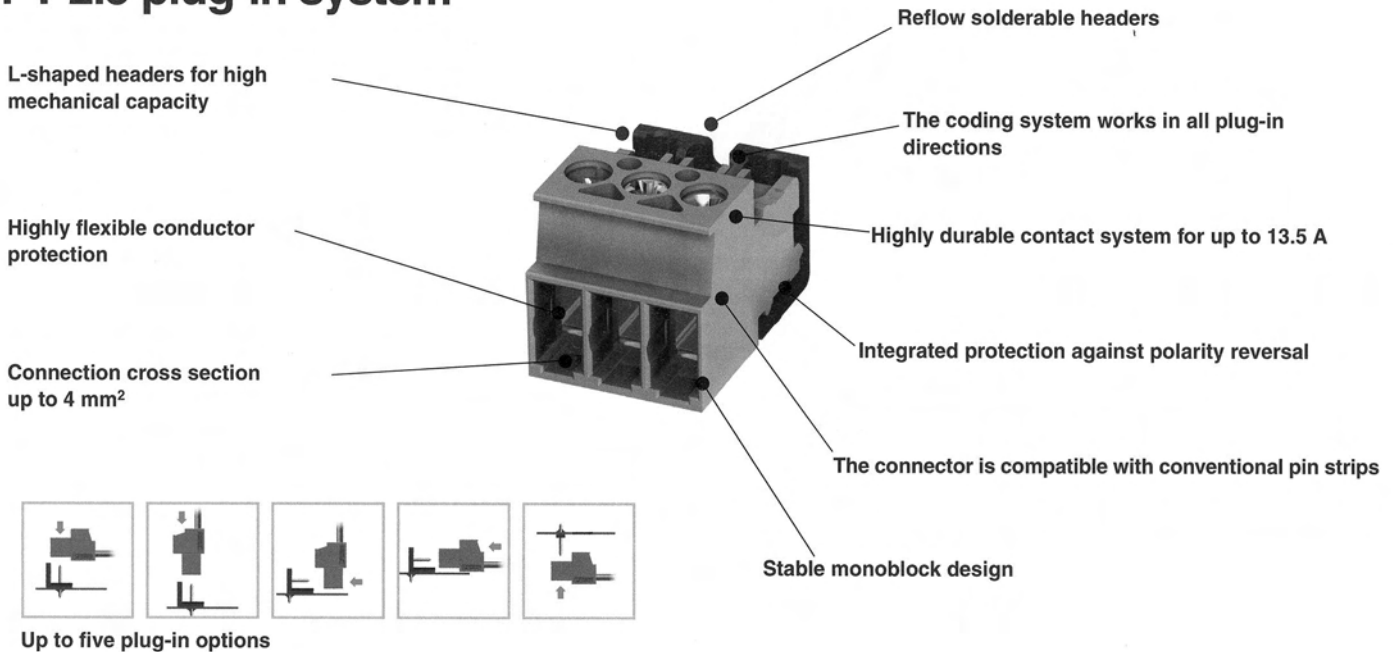
PT series



PTDA series

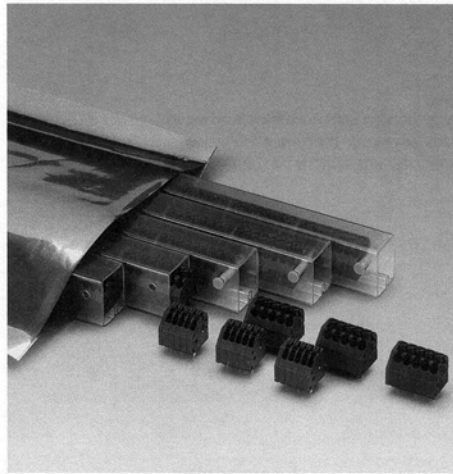


PT 2.5 plug-in system

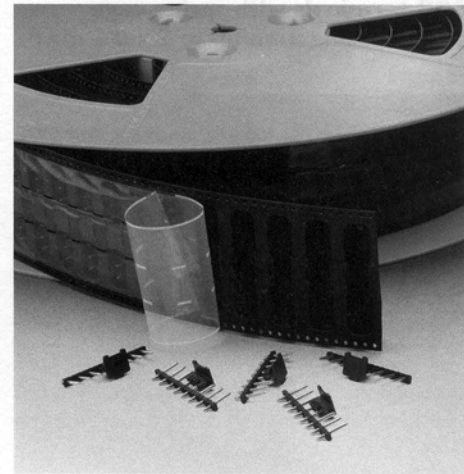


THR versions

Thanks to their high-temperature resistant insulation housings, the THR versions can be integrated into existing SMD production processes without any problem. Pick & Place pads, tube magazines and Tape-On-Reel packings are optionally available. See page 23 for further information regarding THR.



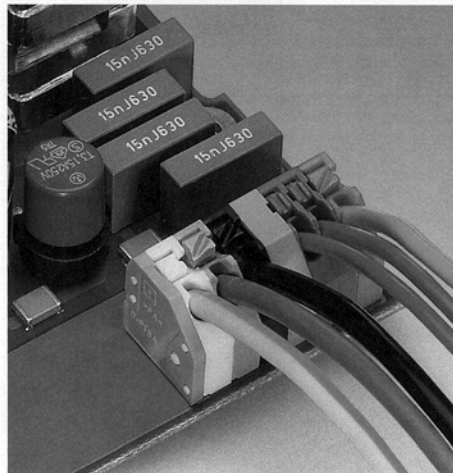
Magazine packing



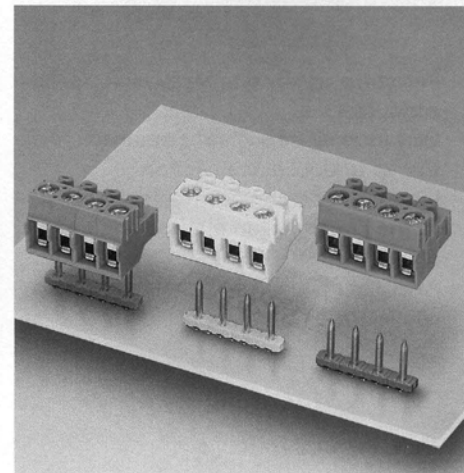
Tape-On-Reel packing

Color coding

The optionally available color coding enables the easy assignment of conductor-terminal points or connectors-headers. This facilitates an error-free installation of the devices to be connected. The color coding facilitates easy and reliable implementation of work instructions such as "red conductor to red terminal point" or "red connector to red header".



Color coding



Connector-header color assignment

Customer-specific versions

Designation	Labeling	Color		Partial assembly	Mech. coding	Color coding	Machine packaging	Other
		Standard	Option					
FK-MPT	● ⁴⁾	■		●	○	○ ¹⁾	●	
PTSA...	●	■	■	● ¹⁾	○	●	●	Blocks of different pitches available
PTDA...	● ⁴⁾	■	■	○ ¹⁾²⁾	●	●	○ ²⁾	Blocks of different pitches available
PTA 1.5... PT 1.5... PT 2.5...	●	■	■	●	●	○	○ ²⁾	A-version can be aligned in the pitch (connector)
PST...	○	■	■	●	○	○	●	Different pin lengths/geometries on request
PST...-L...	○	■	■	●	●	○	○ ²⁾	

● = available

○ = not available

1) With pitch spacer

2) Available on request

3) For example, for doubling the pitch

4) Two printing surfaces available