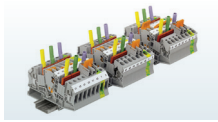


# Phoenix Contact line card



## ▶ Modular terminal blocks

Available with a variety of connection technologies, including screw clamp, standard spring-cage, push-in spring-cage, ring lug and insulation displacement.



## ▶ Cabinet essentials

A complete line of professional processing and measuring tools for all panel shop applications, including cutting, stripping, crimping, screwing and testing with ergonomic handling and durable quality, along with wire duct and DIN rail.



## ▶ Marking and labeling

Marking solutions for all industrial products, including terminal blocks, wires and cables and equipment in and around the control panel. Traditional solutions, such as adhesive wire wraps and shrink tubing, available for harness applications. Our printing systems are all driven by Clip Project planning and marking software.



## ▶ DIN rail power supplies

High-quality single- and three-phase power supplies with up to 50 percent permanent current beyond the nominal rating. There is a complete range of selection from 5 V to 48 V at 12 W to 960 W.



## ▶ DIN rail AC and DC UPS solutions

Intelligent control panel DC or AC UPS systems with advanced diagnostics and event-logging features. Batteries can be hot swapped with no tools required utilizing the easy-opening housing. Up to 15 lead acid or lithium-ion batteries can be connected to each UPS.



## ▶ Relay modules

A broad range of electromechanical and solid-state relays, including 6 mm terminal block relays, traditional relays and “ice cube” relays, as well as monitoring and timer relays. Versions with special approvals, such as CID2, SIL and ATEX, are also available.



## ▶ Motor starters and contactors

Full-voltage, across-the-line motor starters and contactors good up to 30 million switching cycles. Safety or non-safety rated, reversing or non-reversing contactors and motor starters with either 24 V DC or 120/230 V AC control voltages, up to 9 A capacity.



## ▶ Intrinsically safe isolators

A vast range of space-saving, intrinsically safe isolators boasting a wide range of agency approvals such as SIL, ATEX and IEC Ex.



## ▶ Signal conditioners

Isolate, convert and filter signals. Monitor and control processes. Covers all aspects associated with error-free signal transmission, from sensor level to control level across standard, SIL and intrinsically safe applications.



## ▶ Ethernet network

Extensive range of industrial Ethernet products for all aspects of an Ethernet-based automation solution including managed and unmanaged switches, firewall router security appliances and Power Over Ethernet (POE) devices.



## ▶ I/O systems

Flexible options in connecting remote I/O to industrial networks supporting 15 different industrial protocols and 300 different types of I/O modules in both IP20 control cabinet or IP67 field mount options.



## ▶ Wireless data communications

Remote connectivity options using wireless, with seven different technologies, support handling applications from a few feet to around the world.

View the online version at [www.phoenixcontact.com/LineCard](http://www.phoenixcontact.com/LineCard).

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## ▶ Industrial remote communication

Industrial modems supporting cellular, DSL and dial-up technologies providing remote communications for simple I/O, legacy serial bus systems and Ethernet infrastructure for data collection and remote network access.



## ▶ Safety relays and controllers

Safety relays and controllers to be used in applications from factory automation on the plant floor to industrial process automation systems complying with the latest in safety standards.



## ▶ Serial media converters

A complete range of industrial media convertors, isolators and field-wireable connectors supporting RS-232/422/485, Ethernet and fiber optics in addition to Foundation fieldbus power supplies and segment protectors.



## ▶ HMIs and industrial PCs

Rugged, configurable industrial Panel PCs (12-inch to 24-inch screen size) plus blind-nodes. Energy-efficient CPUs, fanless design and available solid-state drives. External LCD monitors from 12-inch to 19-inch screen size. HMI operator panels from 4-inch to 15-inch screen size.



## ▶ PLCs, controllers and software

Scalable controllers programmed in IEC-61131 or flow-chart language for MODBUS TCP, Profinet or INTERBUS. Feature onboard and expandable I/O capability.



## ▶ Sensor cable and connectors

Molded cables, connectors and sensor boxes for plug-and-play connection of field devices to the control system. A full range of fast field connections for sensors and actuators includes the popular M12 connectors, M8 connectors and the small M5 connectors. In addition to metric screw thread, micro 1/2-inch and mini 7/8-inch connectors are offered for the North American market. These industrial circular connectors protect your electrical signals from corrosion, dirt, oils and water (IP65, IP67, IP68 and IP69K) and enable fast machine start-up.



## ▶ Heavy-duty connectors

Heavycon, Heavycon Advance and CES are rectangular connectors for control cabinet and panel feed-through applications. In harsh industrial environments these connectors supply power and signals from the cabinet to the factory floor. The sealed housings – in die-cast or plastic material – protect from dirt, corrosion, oils and water (IP54, IP65, IP67, IP68 and IP69K). Fixed or modular style contact inserts are available with wire termination in screw, crimp, spring-cage, push-in and Quickon (IDC) technologies.



## ▶ Industrial data connectors

Provide the capability to support high-speed data transfer for new network installations and network upgrades. Transmission speeds are up to 10 Gigabits per second across a maximum distance of 100 meters. Preassembled cabling is available with M12 Speedcon connectors, RJ45 connectors or open ends.



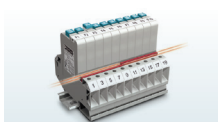
## ▶ PCB terminal blocks and PCB connectors

These connectors can transmit data, signal and power from 0 to 115 A in both fixed and pluggable form factors. Fulfill applications for wire-to-board, wire-to-wire, board-to-board and panel feed-through connections. The connectors are available with screw, spring, IDC and crimp termination.



## ▶ Surge protection devices

Surge protection against high-energy impulses from lightning and utility switching, etc. Surge protection devices for every stage, including service entrance, distribution circuits and the termination devices in the control cabinet. Also includes surge protection for I/O, data, telecom and RF devices. High-grade surge protection components with appropriate protection level and fast response ensure excellent signal quality, high bandwidth and reliable communication.



## ▶ Device circuit breakers

Device circuit protection against overload and short-circuit current. Electronic, thermomagnetic circuit breakers for AC; DC circuits for automotive, oil and gas, process and machine building applications.

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