



# CROWLEY ASSOCIATES

## CHESAPEAKE

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### LINECARD



## *Manufacturers Representative*

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For almost four decades, Crowley Associates has provided exceptional representation and service to our manufacturers, channel partners, and customers.




**GLOBAL LEAD IN THE DESIGN AND MANUFACTURE OF HIGHLY ENGINEERED PRECISION POWER CONVERSION PRODUCTS**

AC-DC Power Supplies: Modular/Configurable Multi-Output; Bulk Power Single Output; Distributed Enclosed Versions; Fanless/Conduction Cooled versions; Datacom/Telecom Racks and Power supplies; Low Power Open Frame versions; External Adapters and DIN Rail, Medical Power Supplies.

DC-DC Power Supplies: Low Voltage PFC and High Power Bricks; Telecom Bricks and POLs; Industrial, Medical & Railway Versions; High Voltage Output DC-DC.


**AMPHENOL ADVANCED SENSORS, WITH A PORTFOLIO OF INDUSTRY LEADING BRANDS**

Amphenol Advanced Sensors is a leading innovator in advanced sensing technologies and innovative embedded measurement solutions customized for regulatory and industry driven applications, creating value by providing critical information for real-time decisions. Product offerings include temperature sensors, pressure sensors, air quality sensors, moisture meters and validation. These solutions serve transportation, medical, industrial, and pharmaceutical markets.


**A LEADING MANUFACTURER OF ELECTRONIC CABLE SINCE 1919**

Consolidated Electronic Wire & Cable is a full line source for all standard electronic wire and cable serving the needs of our industry for over 100 years. Product offering of category and Lan cables, extruded flat cables, coax, fire alarm cable, portable cord and power cables, limited tray cables and uninsulated wire. Markets serving factory automation, green technology, industrial, lighting, military, aerospace, and telecommunications industries. Offering a full resource library for your cable requirements.


**LEADER IN LED INDICATION, SIGNALS AND COMPONENTS**

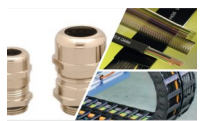
Panel Mount Indicators: Wide array of LED panel lights including IP rated, UL, and daylight viewable, Mil-Aero, LED bulbs, and re-lampable. Discrete Surface Mount LEDs: Various chip LEDs, PLCC, right angle, reverse mount, and lensed options. Prism Right Angle SMT: Reflow ready LED packages with the aesthetic appeal of diffused lens and pick and place. CBI Through Hole: 2mm, 3mm, 5mm, & rectangular in many housed configurations and color combinations. OptoPipe Light Pipes: Hundreds of options in right angle, multiple position, vertical, mounting and or shielded.


**LEADING GLOBAL DESIGN AND MANUFACTURER OF DISCRETE, CONNECTIVITY & TIMING, ANALOG & POWER MANAGEMENT, MIXED-SIGNAL, LOGIC SEMICONDUCTORS**

Power Management: AC-DC, DC-DC regulators, Load/USB Switches, Gate drivers, LED Lighting; Analog - Hall Sensors, LDO, Op-Amps, Comparators, Voltage Refs, Current Monitors, Audio Amplifiers; Connectivity & Timing - Switches/MUX, Redrivers/Repeaters, PCIe Switches, Timing; Logic - Single Gate, Dual Gate, Standard Logic, Voltage Translators, Analog Switches; Discrete- MOSFET, Transistors, IGBT, Diodes, Rectifiers, Protection Devices.


**MANUFACTURES INTUITIVE HUMAN INTERFACE SOLUTIONS THAT MAKE LIFE SIMPLER, SAFER AND MORE EFFICIENT**

Touch encoder, optical encoders, mechanical, optical and hall effect joysticks, keypads, pushbuttons; all with finely tuned haptics, ergonomic panels and product shells that integrate various interface technologies, including displays, touch technology, and motion sensing, rotary switches, CANbus Displays, MMI controllers keypad, toggle, rocker, slide switches. Custom solutions serving military, off-highway and healthcare with value added assemblies.



## OFFERING A WIDE RANGE OF VERSATILE HIGHLY FLEXIBLE INDUSTRIAL CABLES USED IN MANY APPLICATIONS

Developed optimal cable solutions application specific. The challenges faced by modern cables and wires are multifaceted: flexing applications with more than 10 million cycles, severe mechanical and chemical loads, tricky bending radii and space-saving hybrid solutions. Product specifics: flexible tray cable for both stationary and flexing applications, high-flex robotic cable for continuous flexing applications, VFD/servo cable, network BUS cable, drive and motor cables, cable glands and drag chain systems.



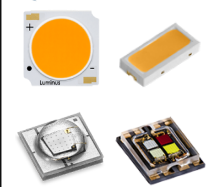
## HIGH QUALITY CIRCULAR CONNECTORS WITH METAL OR PLASTIC HOUSINGS

Push-pull models feature self-latching positive locking with an audible click. Threaded coupling models offer either loose nut or ratchet mechanism. Inserts accommodate single or multipole low voltage, fiber optic, coax, triax, quadra, high voltage, thermocouple or fluidic/pneumatic contacts. An array of mixed insert options allow for hybrid configurations and customization. Indoor IP50 or ruggedized outdoor IP68 models can be used in many critical performance applications: medical, aerospace, military, industrial control, test & measurement, broadcast video and audio, robotics, and telecommunications.



## LOVATO DESIGNS AND MANUFACTURES LOW VOLTAGE ELECTRICAL DEVICES FOR INDUSTRIAL APPLICATIONS

Products solutions for industrial automation, e-mobility, energy management, generating sets, lifting systems, photovoltaics, power factor correction, pumping and piping. Product offering of motor protection, circuit breakers, contactors, E-stops, pushbuttons, selector switches, soft starters, variable speed drives, switch disconnects, fuse and surge devices, automatic switch controllers, switch disconnects, energy meters, micro-PLC, signal towers and beacons for your specific needs.



## GLOBAL LEADER IN LED LIGHTING SOLUTIONS FOR PERFORMANCE DRIVEN MARKETS

Luminus COBs offer a wide spectrum for General Lighting, Hospitality and Retail with excellent color rendering. Dynamic COBs support Color Tuning and Dim to Warm. Offerings of mid power devices in multiple packages for Circadian, Horticulture and General Lighting. High current density LED for UV-A, UV-C, Infrared, Horticulture, Medical, Stage and Machine Vision with an emphasis on optimum photon extraction and sources for etendue-limited applications. Cuvée Systems offers a full line of drivers optimized for compact size, deep dimming and flicker free performance. Partnered with Luminus COBs, the driver family and COBs offer a combined 5 year warranty.



## MILL-MAX A GLOBAL LEADER IN DESIGNING HIGH RELIABILITY PRECISION-MACHINED INTERCONNECT COMPONENTS

Mill-Max manufactures interconnect components standard, modified & custom. Their product line includes precision-machined contact pins and receptacles, spring-loaded contacts & connectors, PCB pins & solder terminals, IC sockets, and board-to-board interconnects, all available in SMT and through-hole. Proprietary high-speed turning machines have the flexibility to be easily and quickly re-configured to make machined contacts in varied sizes and shapes.

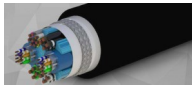


## DESIGN, ENGINEERING, AND MANUFACTURING OF USER INTERFACE SOLUTIONS AND GRAPHIC PRODUCT IDENTIFICATION COMPONENTS

Membrane switches, rubber keypads, capacitive touch, light guides, and touch screens. Plastic injection molding, in-mold decorating, metal and plastic nameplates, as well as several other complementary products and services for custom applications.


**NORTHWIRE DESIGN SPECIALISTS PARTNER WITH YOU TO DEVELOP YOUR CUSTOM CABLE SOLUTIONS**

Manufacturer of Technical Cables, Retractable Coil Cords and Cable Assemblies for Medical, Aerospace & Defense, Industrial Automation, Transportation, Heavy Equipment, Robotic, Marine & Underwater, as well as Harsh Environments and Flex Cable.


**OMRON CREATING A MORE GREEN AND SUSTAINABLE SOCIETY WITH PREMIUM COMPONENTS AND SOLUTIONS**

Offers a wide range of premier, reliable products within four key product categories of Relays, Switches, Sensors, and Connectors designed for a variety of needs and industries as automotive, industrial, healthcare, environmental, and more. Relays- MOS FET, Signal, Power, Automotive, and Industrial. Switches – Tactile, Toggle, Trigger, Rocker, Pushbutton, Dip, Detection, Door and Power. Sensors- IoT, Thermal, Color, Flow, Pressure, Human Detecting and Image Solutions, Vibration/Tilt, Photomicrosensors, and more. Connectors- Board to Cable, Board to Board, Board to FPC, External, IC Socket/Jumper Plugs, and Industrial.


**LEADER IN EMI POWER LINE FILTERS, DOMESTIC AND INTERNATIONAL POWER CORDS, AND HEAT SHRINK PRODUCTS**

Power Products—IEC Inlets/Outlets, NEMA Outlets, EMI Filters (Chassis Mount & Medical), Power Cords AC Fans; Fan Accessories: Fan guards, filters, vibration sleeves, fan power cords; Circuit Breakers: 3 to 40A, single pole and push to reset, custom configurations; electrical sleeving—fiberglass, silicon resin, rubber, PVC, nylon. Cable Assemblies: USB, HDMI, DVI, networking, custom wire harnesses.


**ROSE BATTERIES MAKES MISSION CRITICAL BATTERY ASSEMBLIES**

Since 1963, Rose Batteries has provided high technology battery pack assemblies and power solutions for high reliability applications such as medical, asset tracking, utility, robotics, and IoT. We offer all major cell chemistries, from Lithium Ion to LiFePO4 to Sealed Lead, and carry all major cell vendors. Rose Knows Batteries.


**DESIGNS AND MANUFACTURES A FULL RANGE OF HIGH-PERFORMANCE FANS, BLOWERS AND COOLERS**

Low Noise Design Fans DC & AC Fans with MagLev and Vapo-Bearing, AC and DC Blowers, EC Axial Fan with IP21, IP55 and IP68 ratings, LED Cooling Fans and Fan Accessories. Cooling Modules including Heatsinks, heat sink heat pipes and heatsink with fan. Custom Configurations based on your system structure. Complementary design services such as thermal simulation, vent optimization, velocity profile, temperature and pressure distribution, and performance and testing analysis.


**STORAGE AND EMBEDDED IOT SOLUTIONS FOR DEMANDING APPLICATIONS**

Storage Products: SSDs with PCIe and SATA interface - mSATA, Slim SATA, CFast™, M.2 , 2.5", CompactFlash, USB flash drives, SD, micro SD memory cards, managed NAND BGAs.

Security Products: storage with integrated security component, security firmware, protection and encryption.

System-in-Package(SiP): integration of multiple bare dies and components into high density packages.



**TT Electronics**



**BROADLINE DESIGN AND MANUFACTURE OF POWER, CONNECTIVITY, SENSORS & PASSIVE COMPONENTS**

Combining the power of BI Technologies, IRC, Optek, Semelab & Welwyn, TT Electronics manufactures a wide range of electronic components for applications in the aerospace, defense, industrial, medical & transportation sectors. They specialize in optoelectronics, flow sensors, pressure sensors, steering sensors, temperature sensors, encoders, magnetics, potentiometers, resistors & trimmers. They also offer custom packaging components for critical applications and offer a wide product portfolio including discrete semiconductors, power modules and RF transistors.