



CW Industries

*Your Solution for Custom-Designed
Switches, Connectors & Assemblies*



An ISO Company That Delivers World Class Quality

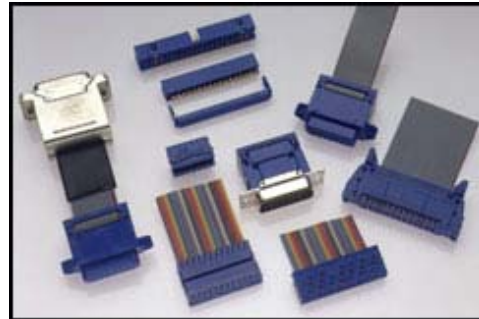
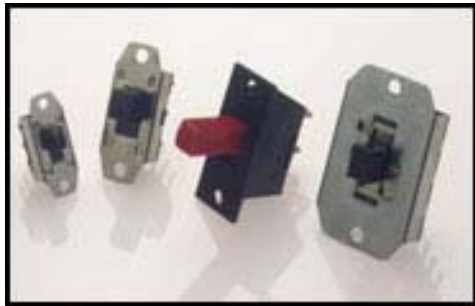


CW supplies leading industrial, consumer and defense electronics manufacturers with complex electromechanical slide, rocker and pushbutton switches; insulation displacement and Mil Spec connectors; and a variety of custom assemblies that require a high level of precision, performance and accountability



Innovation – Every Step Of The Way

Customized Designs For Superior Performance



**Our Commitment to Innovation:
Design, Engineering, Manufacturing & Automation
means we deliver products that meet or exceed your
performance requirements in the most demanding
environments.**



Presentation Overview

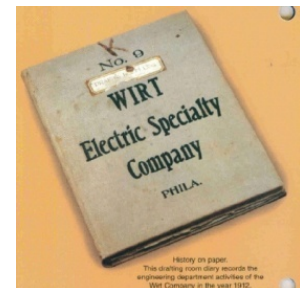
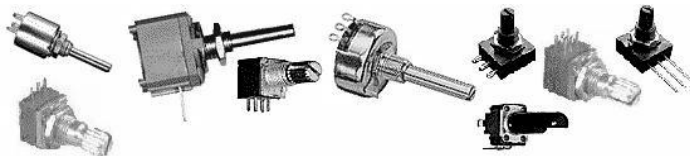
- History
- Engineering
- Quality Assurance
- Manufacturing
- Products
- Markets Served
- The CW Advantage



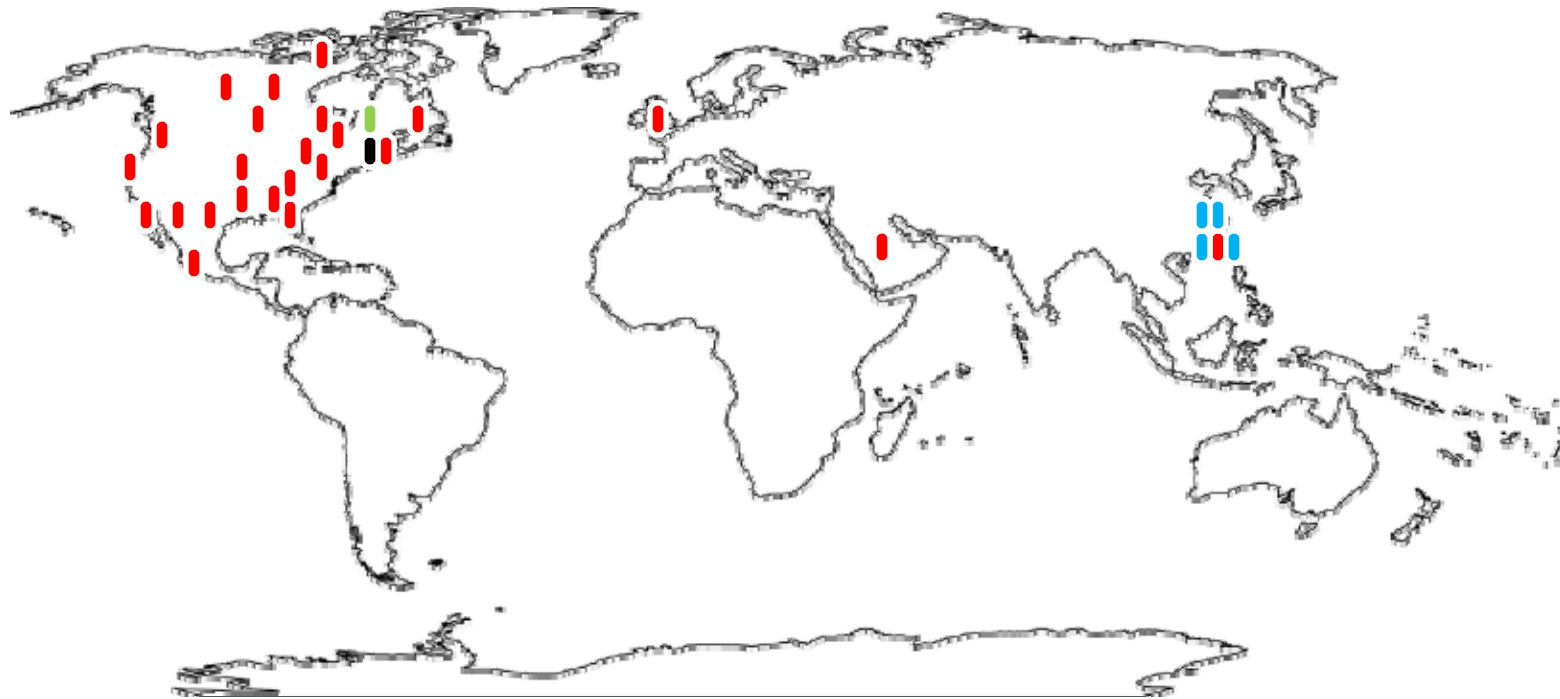


Serving Customers Since 1904

- Our history dates from the earliest days of electronics. The Wirt Company was founded in 1904 by Charles Wirt, an associate of Thomas Alva Edison.
- Wirt pioneered the development of wire wound potentiometers, fixed wire wound resistors, automotive spark suppressors and slide switches.
- At the same time, engineers at Continental Carbon, Inc., were creating basic processes for manufacturing carbon composition resistors, metal film resistors and carbon film resistors.
- Following their merger, Continental Carbon, Inc. and The Wirt Company became Continental-Wirt Electronics Corporation and more recently, CW Industries.
- As CW Industries, we have developed patented products and processes for several segments of the electronics industry. These products include slide, rocker and pushbutton switches; insulation displacement connectors; and a variety of custom products
- Privately held company with current ownership since 1958



World Class Manufacturing Engineering, Sales and Distribution



- **Southampton, PA:**
 - **Warminster, PA:**
 - **Asia:**
 - **World-Wide Sales Network:**
- Corporate Headquarters :**
Design Center, Component Fabrication, Automated Assembly, Sales, Technical, QA & Administration
Assembly, QA, Packaging, Warehousing & Shipping
Overseas Manufacturing Alliances
Comprehensive Global Sales Support Network and Warehousing in strategic locations throughout the world including the UK, and Singapore.



***CW PRODUCTS ARE AVAILABLE THROUGH OUR
PREFERRED DISTRIBUTION PARTNER:***

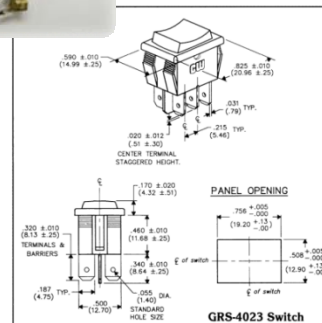
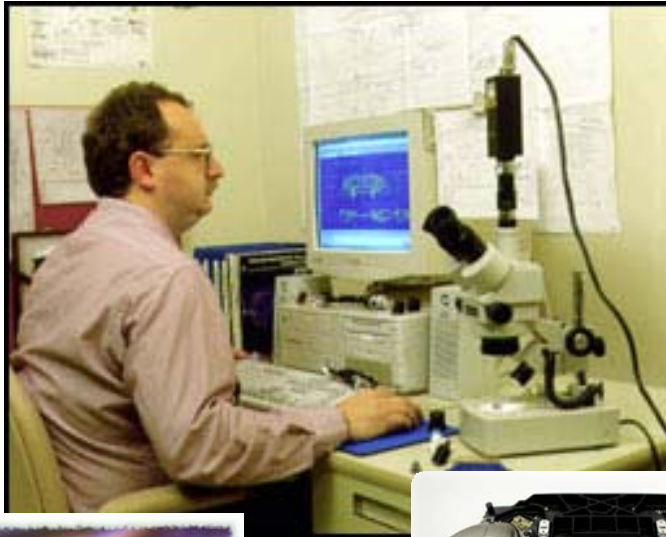


An ISO Company That Delivers World Class Quality



Design Engineering

Design Engineering



- CW provides comprehensive customer support with on-site design and technical assistance to enable our customers to go from product concept to production without delay.
- Our engineers utilize Catia, Pro E, AutoCAD & Solid Works software and Stereo lithography apparatus (SLA) to rapidly produce prototypes without incurring substantial tooling costs.
- CW's innovative ideas have resulted in many patented and trademarked items.



CW Engineering works closely with our customers to design innovative, high quality and cost driven options for electromechanical switches, connectors, wire harnesses, insert molded lead frame assembly, and PCB assemblies.



Quality Assurance

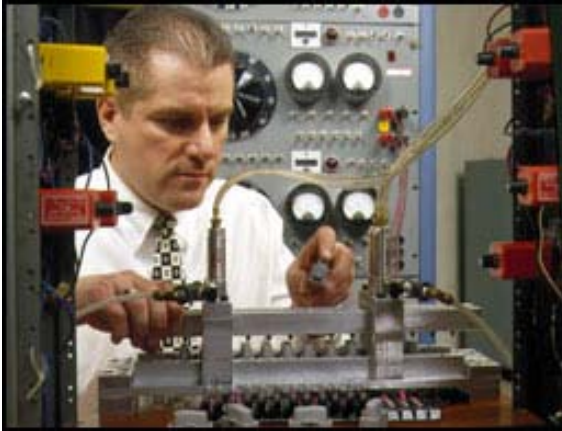
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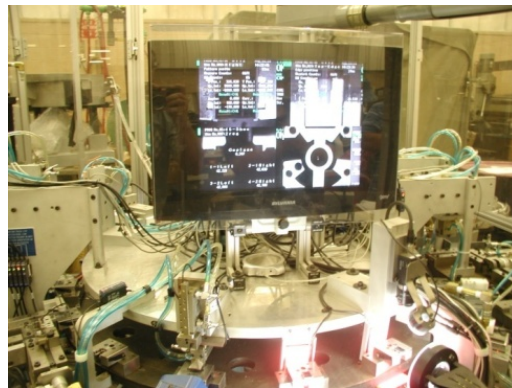
CW Industries has a long-standing reputation for providing high quality components to its customers. Our quality assurance program insures that we can consistently provide our customers with products that meet or exceed their application requirements. We are ISO 9001 certified and our staff monitors the quality process from design to finished product.

CW goes to great lengths to design and manufacture quality into our parts.

Quality Assurance



- ISO 9001 Certified
- Extensive in-house test lab plus fully integrated SPC ensure high quality
- QPL Approved
- Testing to meet unique customer requirements
- Visual Inspection Systems
- Standard agency approvals





CW Test Laboratories are fully equipped to monitor and test CW switches and connectors to published standards in addition to testing to customer specific requirements. Most CW switches are listed by agencies as having conformed to standards in tests applied on a continuing basis.

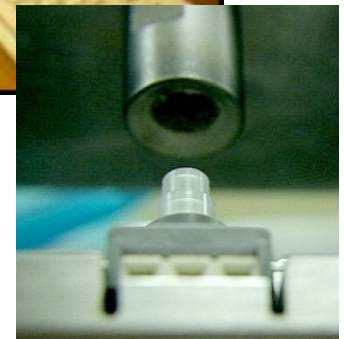
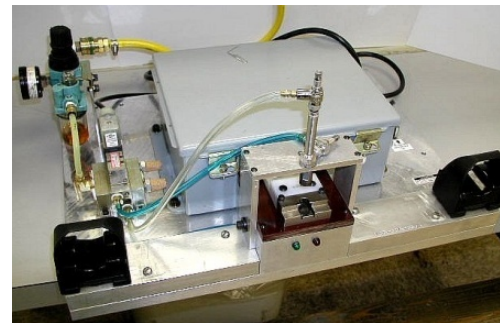




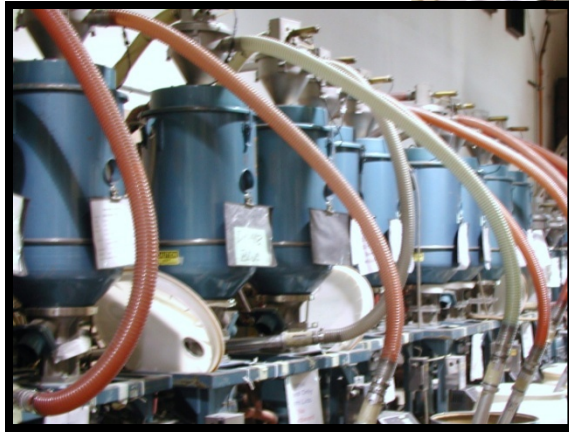
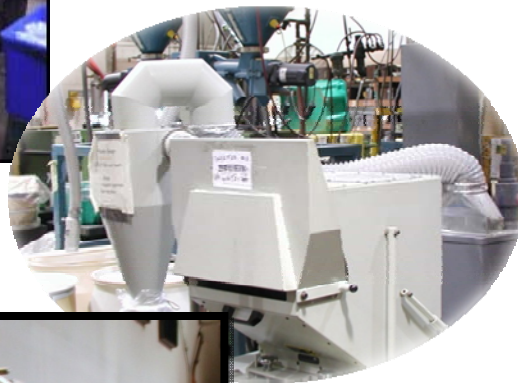
Manufacturing Capabilities

Tooling

- Three state-of-the-art tool shops – In House
 - Mold
 - Dies
 - Automation Equipment
- Low cost tooling capabilities
- Fast track prototyping.
- Tooling engineers are an integral part of the design-for-manufacturing team



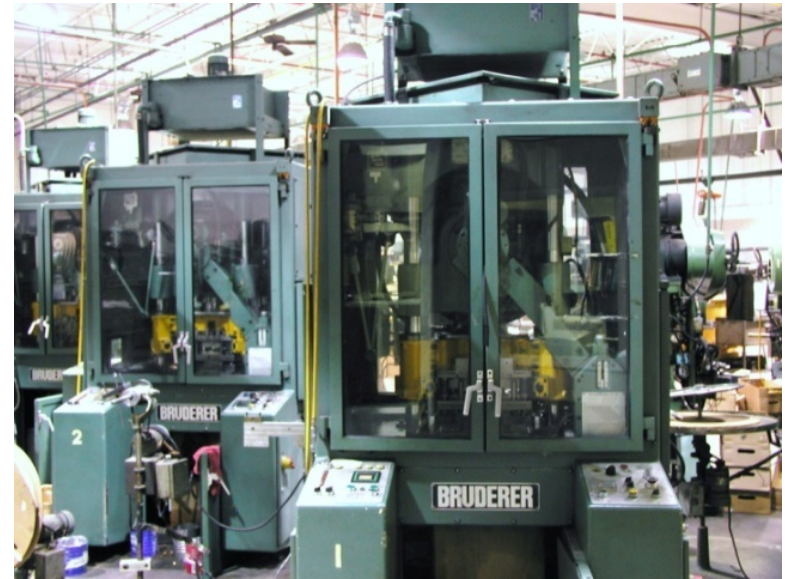
Injection and Insert Molding



- Automated injection molding
- Automated, computer aided insert molding
- Wide selection of materials such as nylon, polycarbonate, LCP, polyester, and more.
- Customized Designs

Stamping / Forming

- Fully automated, high volume systems
- Multiple output progressive dies
- Expert in wide range of raw materials, such as steel, copper, phosphor-bronze
- Precise quality control



Plating

- Selective and duplex plating capabilities
- Precise plating control for optimum cost
- Environmentally friendly
- Variety of plating styles including gold, silver, palladium, nickel, and tin



Manufacturing Automation

- Automated equipment for high volume processes
- Proprietary equipment designed and built in-house
- Vision systems integrated into assembly equipment
- Automation ensures repeatability and quality
- Cost Effective





Product Overview

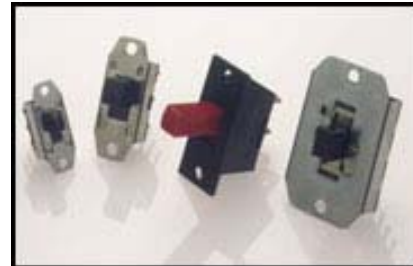
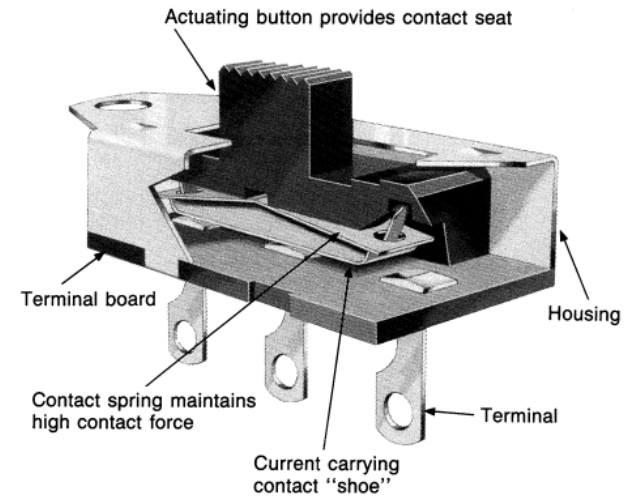


Product Line

- Switches
 - Slide Switches
 - Standard
 - Miniature
 - Micro Miniature
 - Rocker Switches
 - Standard Rockers
 - Power Slides
 - Miniature Rocker
 - Pushbutton
- Connectors
 - IDC
 - Military
- Custom Capabilities
 - Wire Harness
 - PCB Assembly with ESD Compliance
 - Insert Molding

Slide Switches

- Micro-Miniature, Miniature to full-sized standard switches for panel and PC Board Mounting
- One thru four poles and one thru five positions
- For PCB, hand solder, quick-connect, or wire wrap applications
- Ratings from .5A to 16A @ 125V AC.
- Maintained, momentary, and side actuated versions
- UL / CSA Listed



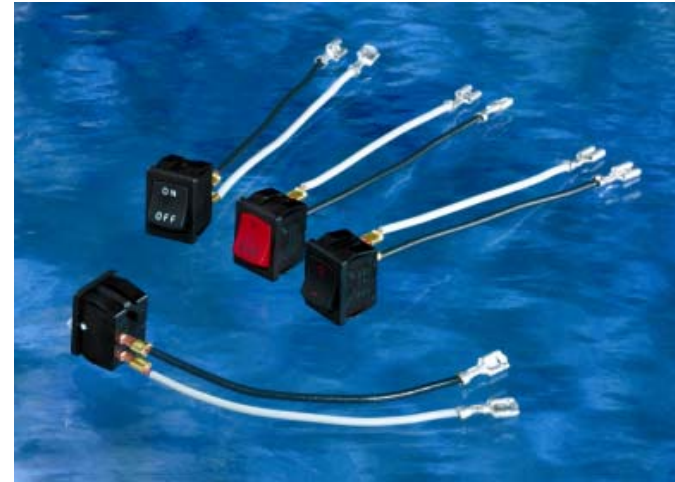
Rocker Switches



- Miniature to full-sized
- Ratings to 20A @ 125-250V AC and $\frac{3}{4}$ HP.
- Variety of styles, colors, and markings
- Circuitries ranging from SPST through DP 3 Position
- Competitively Priced
- Up to 100,000 mechanical cycles
- Center-off, momentary, and illuminated versions
- North American and European Agency Approvals

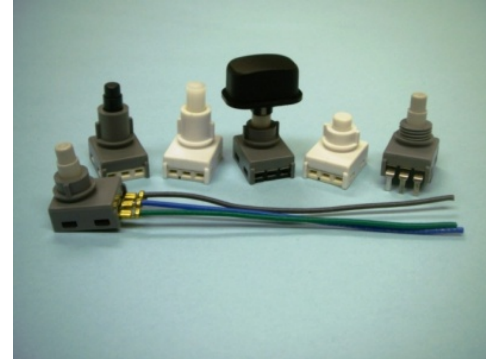
Mini Rocker Switches

- Ratings to 16A @ 125-250V AC and $\frac{3}{4}$ HP.
- Variety of styles, colors, and markings
- Circuitries ranging from SPST through DP 3 Position
- Competitively Priced
- Up to 100,000 mechanical cycles
- Center-off, momentary, and illuminated versions
- North American and European Agency Approvals



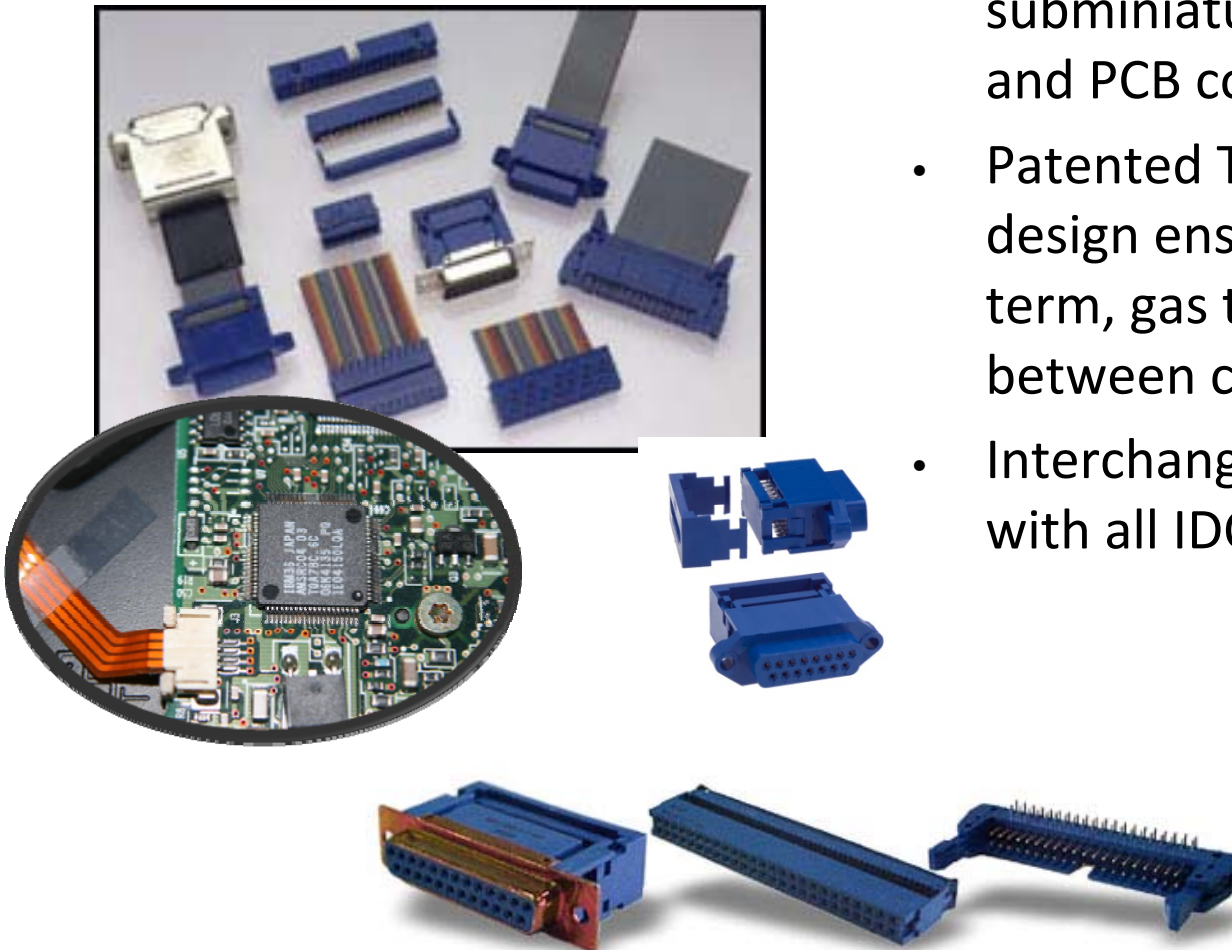
Pushbutton Switches

- SPDT, Ratings up to 16A @ 125V, 16A @250V AC
- Unique range of termination options and simple, fast mounting
- Positive switching action eliminates accidental switching
- Ideal for a wide variety of low voltage devices
- Compact designs

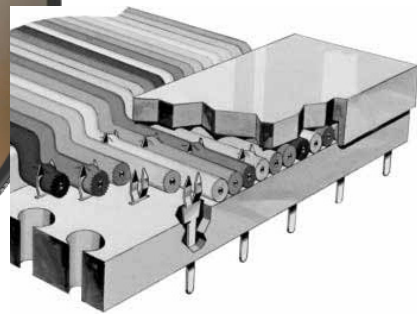


IDC Connectors

- Sockets, headers, D-subminiature, card edge, DIP and PCB connectors
- Patented Torq-Tite™ contact design ensures reliable, long term, gas tight connection between cable and contact.
- Interchangeable and mateable with all IDC connectors

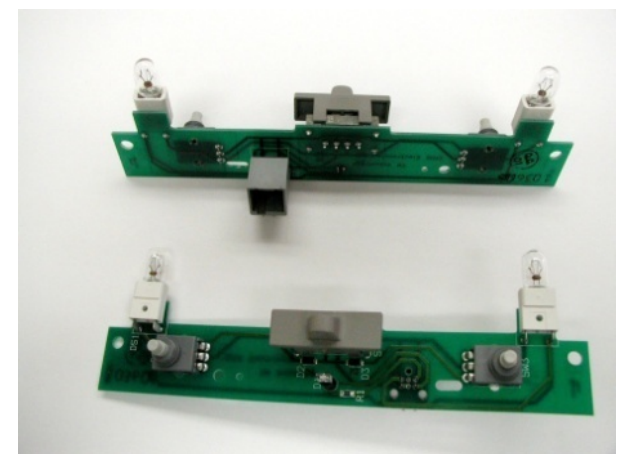
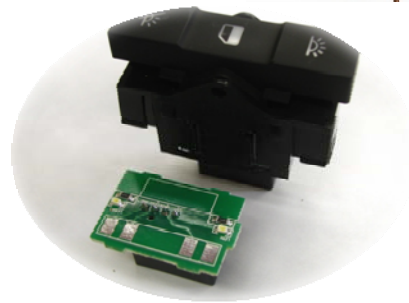
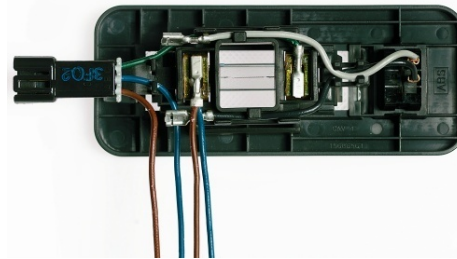
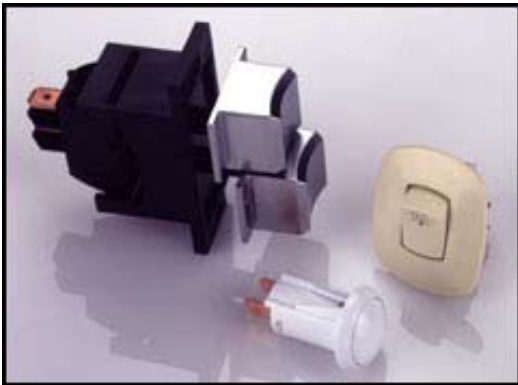


Military Connectors



- Full line of IDC connectors, qualified to Mil-C-83503 and Mil-C-24308
- High density connectors qualified to Mil-C-28804 used on the F-16, Standard Missile.
- NAVSEA listed connectors for use on the Navy's Phalanx high-fire-rate anti-missile system and others.
- In-house test facilities qualified to Department of Defense standards

Flexible, Low - Cost Assembly Connectors - Cabling – Switches Other Components

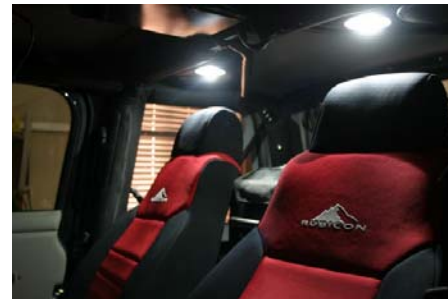
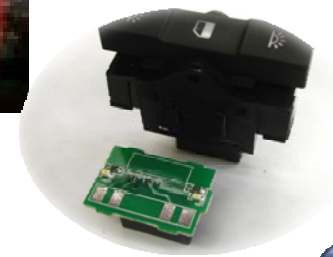




CW Products are specified by many of the leading OEM and Military Contractors throughout the world.

Automotive

- Electromechanical, insert molded lead frame assembly, switch and PCB switch products
 - Interior Lighting
 - Overhead Consoles
 - Dome Lamp
 - Lighted Mirrors
 - Seating
 - Moon Roof



Marine & Recreation

- Power Control Switches, Interior Lighting & Electronics
 - Marine Watercraft
 - Motor homes
 - Sliding Rooms
 - ATV's
 - Golf Carts



Lawn And Garden

- Electromechanical Switches including power and kill switches
 - Weed Trimmers
 - Chain Saws
 - Lawn Mowers
 - Snow blowers
 - Power Washers
 - Generators



Appliance, Food & Beverage

- Electromechanical switches harness assembly, PCB switches.
 - Ice Maker switches
 - Commercial Ice Makers
 - Washer & Dryer
 - Commercial Dishwashers
 - Commercial Fryers
 - Range and Range Hood



Aerospace & Defense

- Custom Designed, QPL interconnection Products
 - CW offers total connector development and manufacturing support. Our design teams transform your ideas into prototypes and test them in our UL, CSA and DOD –certified laboratory.
 - Cage Code 79727



Healthcare

- Power and control switches & assemblies.
 - Hospital Beds
 - Wheel Chairs
 - Mobility Carts
 - Portable X Ray and imaging
 - Medical Device Tools



Markets Served

- Gaming
- Floor Care
- Computers
- Power Tool
- Environmental Controls
- General Industrial & Automation
- Consumer Goods
- HVAC
- Telecom
- Fitness Equipment





The CW Advantage

- CW is a partner to our customers
- Process and Design
 - Innovation, Manufacturing & Automation
 - Cost Effective
- Quality Systems
- Stability - Financial Strength
- Highly trained and personalized Engineering and Sales Staff
- Global Presence
 - Application assistance in the field and at the factory to support our customers
 - Stocking Distributors Worldwide
 - Strategic Alliances



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