

About CW

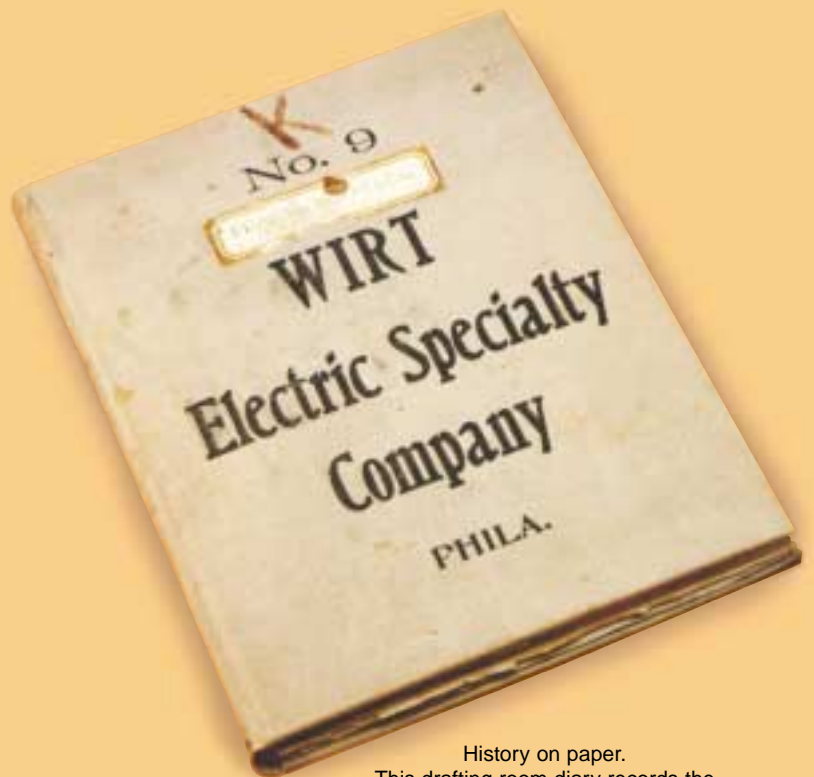
Our history dates from the earliest days of electronics.

The Wirt Company was founded in 1904 by Charles Wirt, an associate of Thomas Alva Edison. Wirt pioneered the development of wirewound potentiometers, fixed wirewound 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, pyrolytic 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.

Our fully integrated manufacturing facilities permit us to control the conversion of raw materials to finished product. In addition to engineering each of our basic designs and patented features, we have the capabilities to mold, stamp and plate in-house virtually every component used in each of our products. We design and build our own molds and contact dies, as well as most of our assembly equipment. We even have an environmental testing laboratory qualified by Defense Electronics Supply Center and Underwriters Laboratories to perform in-plant testing.

These facilities, plus our experience in making millions of terminations over the past years, uniquely qualify us to provide you with fully tested Insulation Displacement Connectors with a significant improvement in design, reliability, delivery and overall cost.

Our technical staff and local value-added assembly centers are available to provide application engineering assistance. We can provide 100% tested, ready-to-use cable assemblies made to your specifications... or connectors, cable and assembly tools for your in-house assembly.



History on paper.
This drafting room diary records the engineering department activities of the Wirt Company in the year 1912.

Significance of Mil-DTL-83503 and Mil-DTL-24308 Approvals

Procurement agencies of the United States government purchase vast quantities and types of electrical and electronic military gear for use by The Department of Defense and its many branches. Because of the obvious need for reliability of military equipment, specifications have been developed to define minimum acceptable performance standards for components used in this equipment. Those components that meet the performance standards and physical parameters defined in these specifications are placed on a Government prepared "Qualified Products List" (QPL); and they remain on this list provided ongoing and continuing "acceptance" tests indicate that the product continues to meet the specification requirements.

The Qualified Products List for Mil-DTL-83503 (the general specification for multi-contact, electrical connectors for terminating flexible flat cable) is established and maintained by the Defense Electronics Supply Center, Dayton, Ohio as agent for the Air Force Acquisition Logistics Division (AFALD-PTS) Gentile Air Force Station, Ohio.

CW has been involved with Mil-DTL-83503 from the outset. Our engineers helped the Department of Defense establish the standards and our IDCs were among the first placed on the QPL.

Our government-certified testing facilities constantly evaluate production connectors in keeping with Mil-DTL-83503.

Mil-DTL-83503 establishes the physical, material, and performance standards for IDCs purchased for military use. These include physical dimensions, materials of construction, and performance standards—high and low temperature, thermal and mechanical shock, dielectric withstanding voltage, cable retention, contact retention, cable flexing, contact resistance, mating and unmating forces, durability, and others. The specifications also describe test methods used to determine component acceptability for each of these standards.

Standardization of IDCs has been promoted and supported by the requirements of Mil-DTL-83503. This specification has proven useful, not only by tending to increase the performance levels that IDC manufacturers strive to achieve, but by setting up general criteria that lead to predictable performance and interchangeability among various IDC types from various sources.

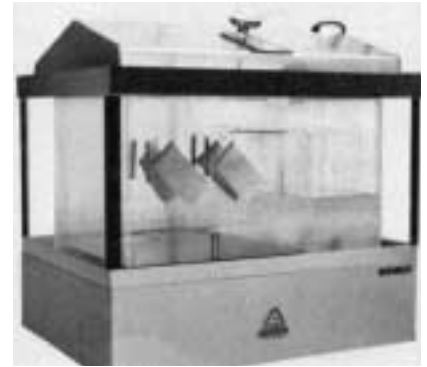
CW's position of leadership in the industry is a direct result of our leading role in the development of these standards.



Temperature cycling from hot to cold



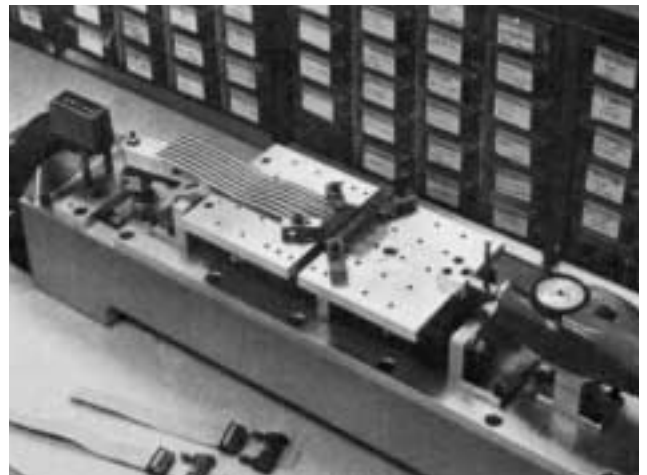
Test to determine the force for cover pull-off from base of connector



Exposure to a hostile salt spray environment



X-Ray Fluorescence Equipment is used to determine the precise thickness of Contact Plating



Measurements of insertion and withdrawal forces after 500 matings