

#### Miraco Inc. is an innovative design and engineering company in the interconnection systems industry.

From our inception in 1987, we have been dedicated to developing innovative high-density interconnect solutions for all electronic industries. Miraco is built on a core of professionals who have over a century of combined experience and more than 30 patents in the field of flexible printed circuits (FPC), flat flexible cable (FFC) and connector technology. We continue to maintain an aggressive focus on developing new products and processes to meet tomorrow's electronic packaging challenges.

Our goal is simple: "Provide a quality, cost-effective solution on time." Easier said than done, we are sure you've heard it many times before. However, it has been our unrelenting drive to fulfill this goal that has facilitated our success. We achieve this aim through unparalleled customer service and our unique interconnection solution approach – we design, source and finish flat flexible interconnection systems. we do not manufacture the base cable or circuit. This gives us a wide range of advantages that we pass on to you.

"Being on par in terms of price and quality only gets you into the game. Service wins the game."

#### customer

SERVICE

#### Communication is the key to our success.

Miraco's approach to fulfilling your product needs would not be effective if it were not for our devoted customer service. Overlooked and underestimated, customer service is too often taken for granted and not stressed by vendors. Customer service is the communication medium through which designing and sourcing becomes effective. Give us a try, call us. You will not talk to a machine, you will talk to real people who are knowledgeable and want to solve your problems.



Our level of customer service enables us to properly communicate and consider all your application's requirements when developing a solution. Each design aspect (environmental, electrical, mechanical, delivery and cost) is evaluated and compared to achieve a balanced and complete solution.





### Measured results mean more for your business.

Miraco is able to accomplish this because we are not biased in our component selection or limited by our production methods. This allows us to take some innovative directions so we can truly fulfill all of your application's needs when developing a solution. We are not restricted by in-house capabilities or capacities like other circuit and cable providers.

Although Miraco specializes in flat flexible interconnection solutions employing either flexible printed circuit or flat flexible cable, we also excel at custom wire applications.

#### From "Prints to Parts"...

Our design and engineering services offer complete design and engineering resources that include complimentary design reviews, solution conception, product design, and prototyping (including full manufacturing prints and databases, 3-D molding, 2-D layouts and circuit design.) Miraco's design and engineering staff also offers extensive product testing with our complete inhouse lab that covers thermal cycling, humidity, vibration, shock, insertion/extraction force, dynamic flexure, and low-level circuit resistance. Our comprehensive testing evaluation and reporting is the best in the industry.

## One quote with options or considerations clearly listed, realistic lead times and upfront pricing.

When it comes time to buy something as specialized as FPC or FFC and custom wire systems, make your first choice the right choice. Conventional methods result in several quotes from various manufacturers with wildly varying lead times and pricing, with each manufacturer interpreting the job requirements differently and quoting the job to suit their manufacturing capabilities. The Miraco method provides our customers with one quote, directly from Miraco, with any options or considerations clearly listed, realistic lead times and upfront pricing.

# Exceptional and reliable purchasing options.

Building FPC, FFC or custom wire systems is a complex process rife with opportunities to fail. Miraco inspects to industry standards and/or customer requirements and can rework at our facility without incurring any additional costs or lengthening lead times.

### Flexible, efficient and capable assembly.

Miraco's suite of services includes production services, component assembly, solder assembly, pad printing, finishing services, lasering, plasma etching, die cutting and die punching. We offer all of these assembly services affordably, reliably, and on-time.

From quoting, to assembly, purchasing, and products, Miraco offers a complete line of solutions for your industry.

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Miraco is dedicated to developing innovative high-density interconnect solutions for the flexible printed circuit and laminated flat flexible cable industries. Miraco solutions not only offer a complete line of standard interconnect products and customized connectors, but also the revolutionary Quick Laser and Quick Cable circuit and cable finishing services. Miraco continues to maintain an aggressive research and development program focused on developing new products and processes to meet tomorrow's electronic packaging challenges.

#### The Miraco difference.

- O Miraco performs a detailed quote package evaluation and contacts our customers with any questions prior to submitting a quote.
- O Miraco has the purchasing power and industry experience to get you the best pricing.
- O Miraco employs a certified suppliers tracking database that tracks and evaluates capabilities, quality and delivery, and bids the job to the supplier whose abilities fit the application requirements best.
- O Miraco bids out the job using standardized RFQ packages that include cover sheet, material stack up, and specification requirements.
- O Miraco has onsite laser finishing and assembly service.
- O Miraco's ability to rework materials in-house saves you time and money.



# Simply stated, Miraco's main goal is to provide a quality, cost-effective solution, on time.

Our products and services are specially designed to empower our clients to produce a product with lower lead times, superior performance and quality, and lower install system costs.

Our connector products accomplish these goals through the use of our proprietary and patented technologies such as the first true Insulation Displacing Connector (IDC) for laminated Flat Flexible Cable (FFC) and Flexible Printed Circuits (FPC). Imagine the reliability, low cost, and versatility of a ribbon cable IDC without the overall size and contact density limitations. Combine that with the mechanical, electrical and installed cost advantages of FPC and/or FFC and you too can envision an interconnection system that embodies all of tomorrow's interconnection technology today. This is what we have created with our line of C2XT connector's. Our services achieve the same goals through; the use of state-of-the-art equipment that is continually upgraded and customized, specialized operating, engineering, and sales professionals, and the continual evaluation of our customers developing requirements so that we can better serve them in this dynamic manufacturing industry.

Miraco's commitment to you is that we will strive to become a full member of your engineering and manufacturing team focused on delivering you high quality products and service, on time, while achieving your stated technical and cost goals.





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