



3Ci Manufacturing Inc., is proud to be the leader in the industry regarding all things connectivity. We are proud to be a Canadian owned and operated company. If you plug in or connect, we are the place to go for “BEST” in industry Products, Price, Service, Turn around time, and Delivery. With our world-class in-house machine shop and some of the top names in our industry working at 3Ci, enables us to provide “Mercedes quality, Tip of the spear” – wire, connectors, cable, cable assemblies, harnesses, parts, and enclosures and repairs. From inception to conclusion, with our in-house engineering team, we have you covered. With our 20+ years of industry service excellence and experience, sales, and support, we can use our expertise in helping our clients get what they need and want the first time and done right every time.

Our cable assemblies and harnesses are either standard/legacy or ruggedized over molded weatherproof, environmentally sealed to ensure weather or people are not the concern they used to be. We work with all kinds of connectors such Lemo, Amphenol, Deutsch DIN, Wurth and Harting; just to name a few. And varied and diverse cable types such as stranded, twisted or shielded as a few examples. The 3Ci Manufacturing Inc., have worked with Controlled Goods ITR, and IRB/ITB,.

If the world you work/play or fight in is hot or cold, wet, or dry, above ground or below, on the ocean or beneath it, our products will work when needed, every time! Our enclosures, cable assemblies, harness, and products are made for harshest of environments, for the toughest jobs. We do production run of high mix, low volume and/or high volume, low mix. By over molding some of our products we've helped ensure that the product lasts and won't let you down when needed. 3Ci must be your first choice in one-stop-shop for your connectivity needs. From planes, train and automobiles, no matter what industry; aerospace, defense, mining, or transportation, Communication to Agriculture, Automation, UAV/USV, Shipping to Entertainment, Oil and Gas. Innovation! You dream it! We build it!



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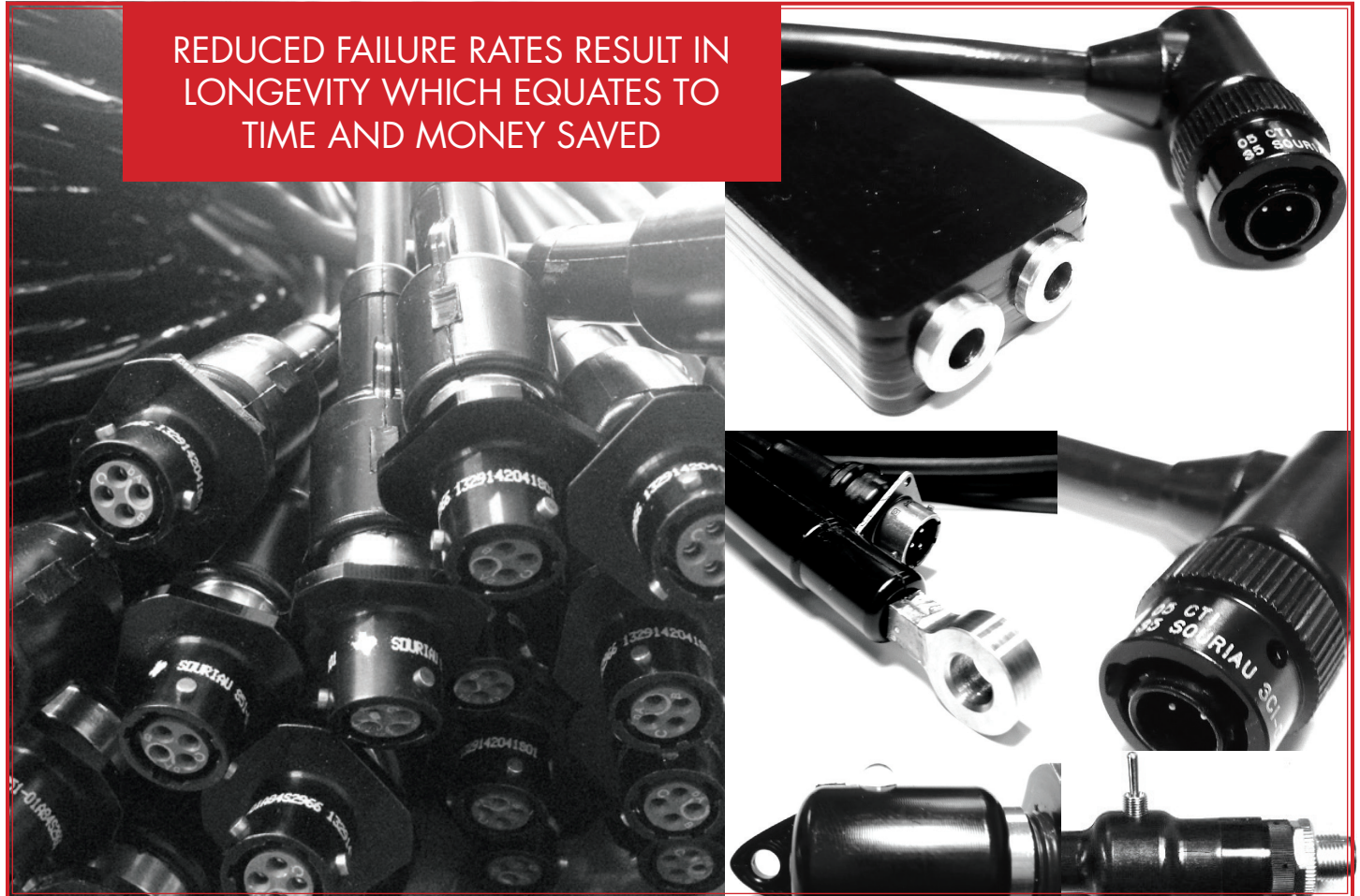
Email:

[www.3-ci.com](http://www.3-ci.com)



## CUSTOM CABLES

REDUCED FAILURE RATES RESULT IN  
LONGEVITY WHICH EQUATES TO  
TIME AND MONEY SAVED



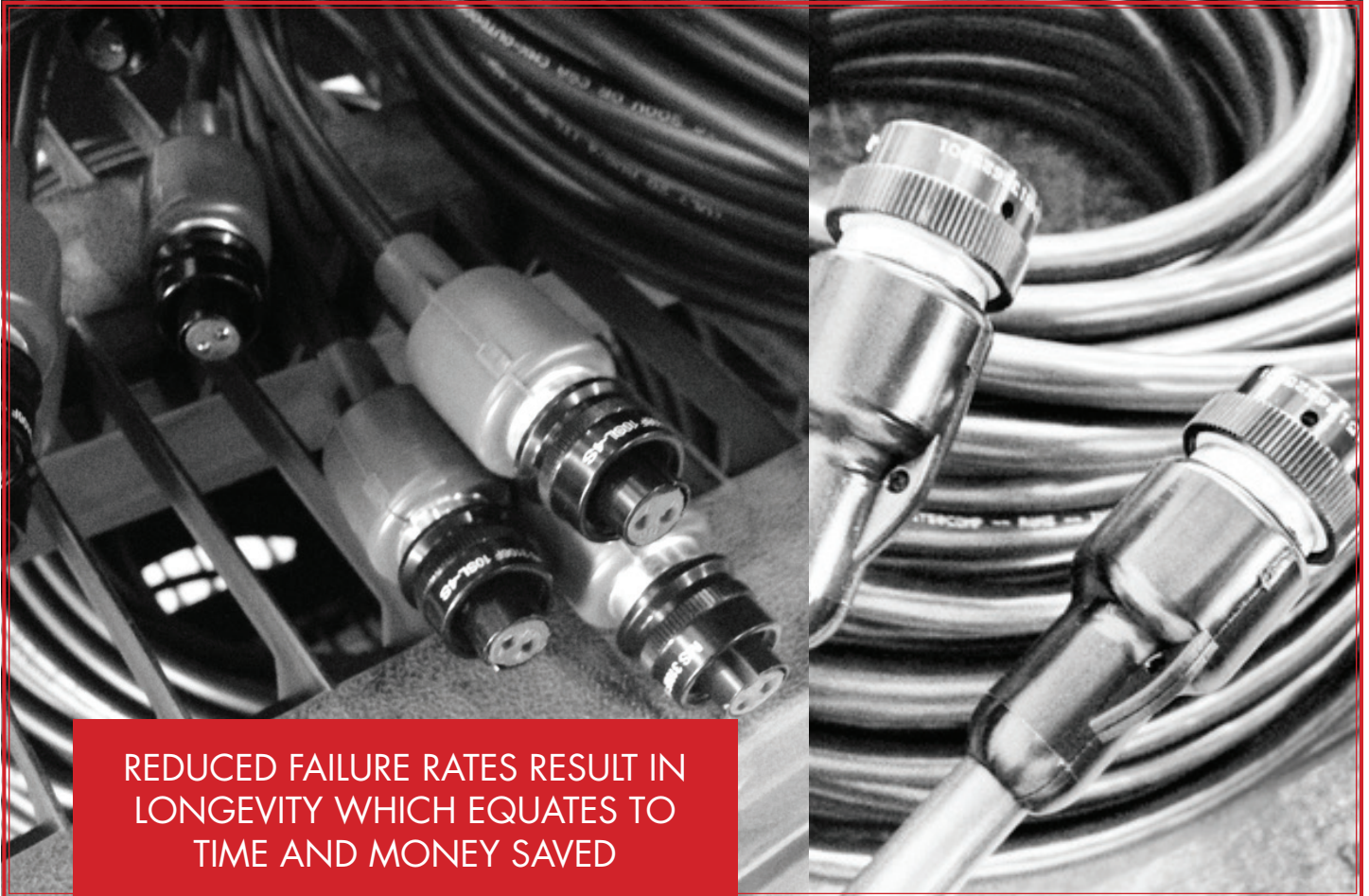
**3-CI RECOGNIZES THE CHALLENGES ASSOCIATED WITH AN EVER-CHANGING INDUSTRIAL ENVIRONMENT.** 3-Ci develops custom overmolded solutions to address these challenges in an innovative and proactive method. Our custom Plug and Play cable assemblies are designed with heavy industry, functionality, and environment in mind. Connective solutions and components are tested several times prior to shipping to ensure top quality. We are dedicated to providing quality connective solutions to our customers everyday.

- Extreme environment handling and longevity
- Creative technology to aid in the advancement of molded solutions
- Customer-driven and focused on schedules and timelines
- ISO 9001:2008 accredited
- In-house Solutions/Engineering team to work with each customer on problem solving and development





## CABLE ASSEMBLIES



REDUCED FAILURE RATES RESULT IN  
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TIME AND MONEY SAVED

### DELIVERING CONSISTENCY AND HIGH QUALITY,

3-Ci has become the leading manufacturer of polyurethane cables in today's market, developed to withstand the harshest environments including severe weather, natural ecological challenges, and chemical exposure. These conditions have provided the perfect developmental path for 3-Ci to advance the quality of our products to what it is today. The cables produced by 3-Ci are heralded as some of the most reliable in the market; up to five times the typical standard. Our quality products combined with speedy delivery make 3-Ci the go-to choice for your cable needs.

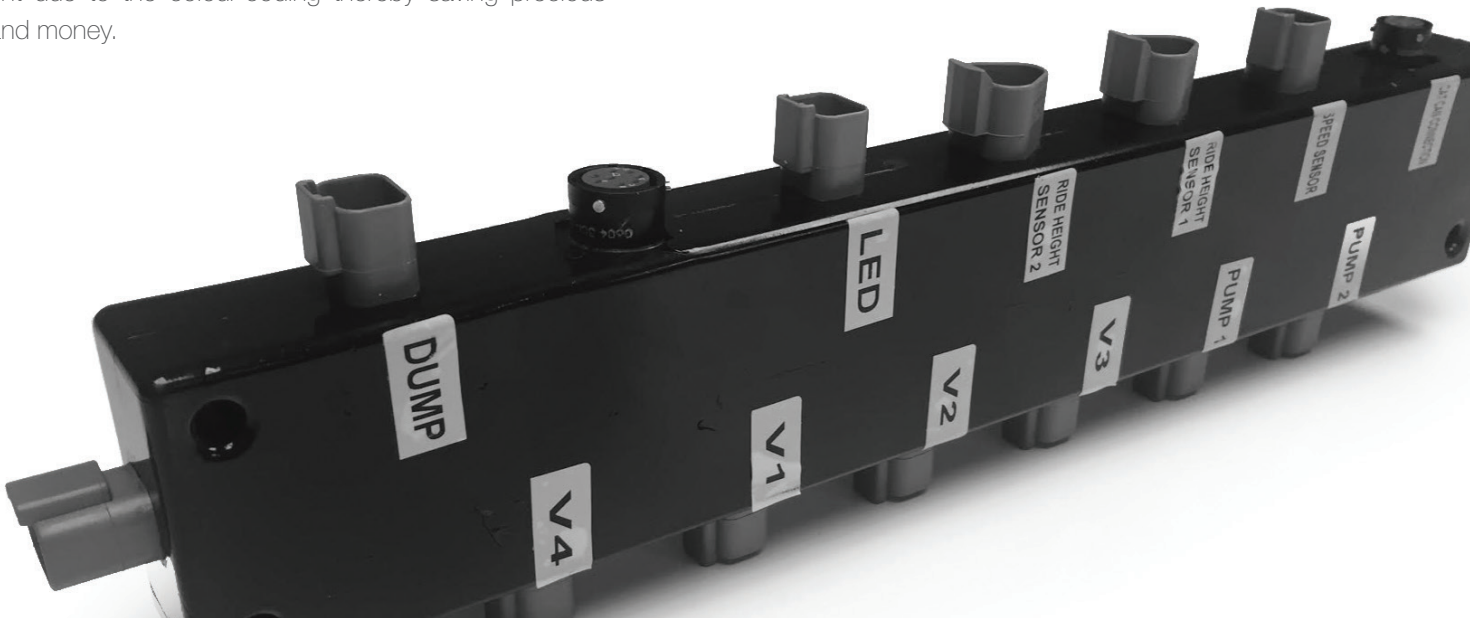
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# MINING OPERATIONS

**IN 2012, A MINING CONTRACTOR ENLISTED OUR EXPERTISE TO PROVIDE A SOLUTION** to a systemic problem plaguing their operation during repair and maintenance intervals. The main body of the solution was to provide the customer with a colour-jacketed polyurethane cable and colour-coded molded ends that were to be run alongside black hydraulic hoses. During the repair and maintenance cycle, often times electrical lines would be mistaken for hydraulic lines and would be cut, which resulted in extra repair time. 3-Ci developed a polyurethane cable solution that ran alongside the hydraulic lines but were visibly different due to the colour-coding thereby saving precious time and money.

- Extreme environment handling and longevity
- Creative technology to aid in mining and oil and gas operations
- Customer-driven and focused on schedules and timelines
- Compliant to customer requirements
- In-house Solutions/Engineering team to work with each customer on problem solving and development



REDUCED FAILURE RATES  
RESULT IN LONGEVITY  
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## DIN ASSEMBLIES



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WE ELIMINATED THE PIN CORROSION ISSUE  
BY COMPLETELY SEALING THE ENTIRE DIN CIRCUIT

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**DIN 43650 CONNECTORS ARE PRIMARILY USED WITH SOLENOID VALVES**, offering a secure and water resistant connection. The DIN 43650 connectors can be found in hydraulic and pneumatic applications, as well as pressure sensors, and switches. DIN 43650 Form A connectors can be identified by their "U" shaped pins facing inward and their 18mm measurement between pins #1 and #2.

- Pin corrosion due to moisture getting past the seal in the bolt housing or through the gasket or housing itself has been eliminated
- Overmolding prevents past issues of cracked housings
- The issue of gaskets being lost during service intervals is eliminated by incorporating the gasket directly into the complete molded assembly





# ENGINE, TRANSMISSION, TRAILER & CUSTOM HARNESS MANUFACTURE



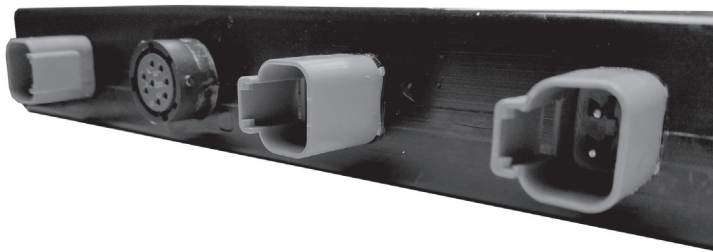
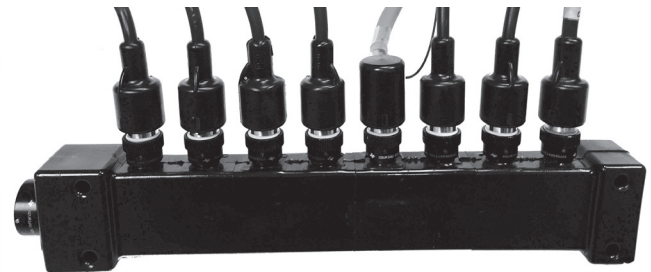
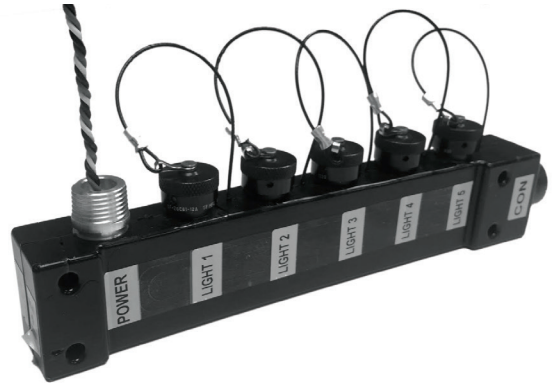
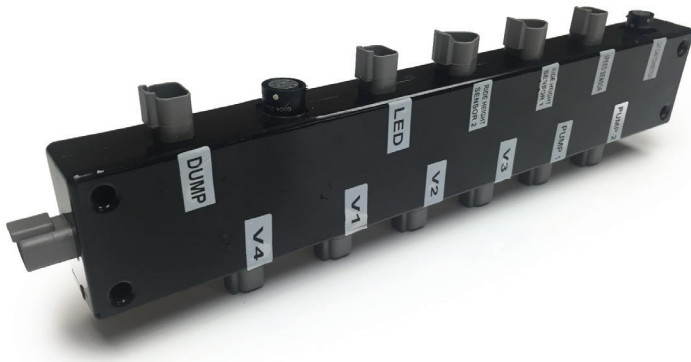
**3-CI IS PROUD TO BE A LEADING PROVIDER OF CUSTOM POLYURETHANE CABLES** in North America. Our skill set now extends into the heavy industrial automotive world. Utilizing advances in cable construction with superior functionality to standard PVC cables, 3-Ci provides a wide variety of flexible products. For example, we provide manufactured replacement PU harnesses that will endure the environmental stresses and extreme climate fluctuations that occur regularly in the industrial automotive world.

OUR ONGOING RESEARCH AND DEVELOPMENT WITH CUSTOMERS FOCUSES ON PROVIDING SOLUTIONS FOR ANY POTENTIAL CONCERNS THEY MAY HAVE

- Heavy industrial overmolded interconnect solutions to replace existing OEM harnesses and cables
- Customer-driven and focused on schedules and timelines
- ISO 9001:2008 accredited
- Building the best products for the best companies using the best ideas
- In-house Solutions/Engineering team to work with each customer on problem solving and development



# CUSTOM MULTIBLOCK SOLUTIONS

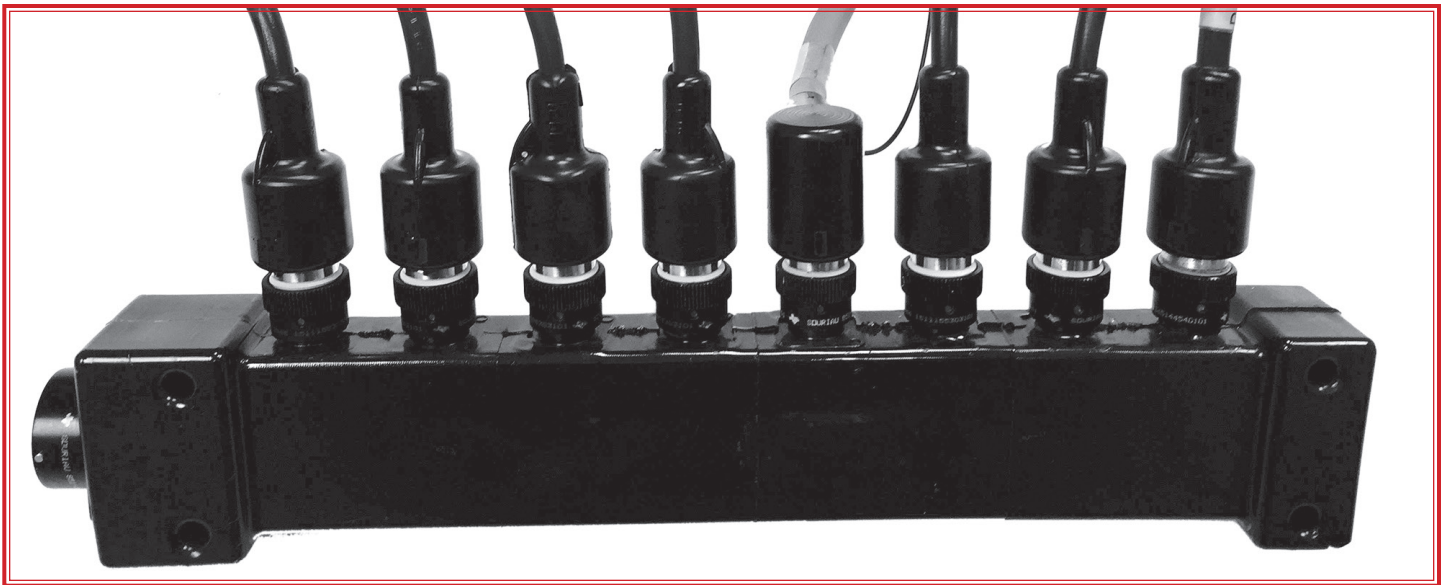


**3-CI MULTIBLOCKS ALLOW FOR MULTIPLE SIGNAL DISTRIBUTION** from one fixed point in a compact format. This allows the blocks to be affixed at numerous vantage points based on customer requirements. Multiblocks give the flexibility of signal extension from PLC to the block and from the block out to fixed connection points.

- Available in 4 port signal, 6 port signal, 8 port signal, tandem blocks, power distribution blocks, and composite distribution blocks
- Single input/output per port
- MS26482 series or 5015 series quick disconnect connectors are standard
- Utilize one home run cable from panel to block
- Commonly used for sensors and actuators
- Reduces labour, installation time, and quantity of cabling required
- Junction box failures typically due to expansion/contraction and vibration are eliminated with our unique solution



## OILFIELD



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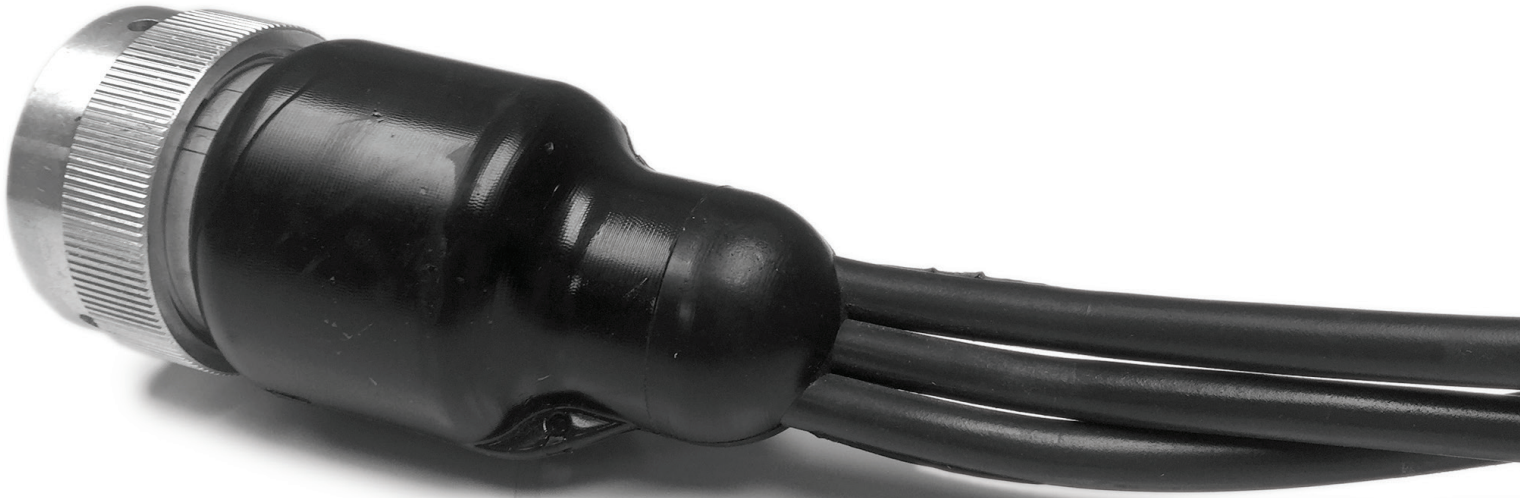
**WITH A PROUD HISTORY SPANNING OVER 15 YEARS,** 3-Ci provides heavy industrial overmolded interconnect cables and other manufactured components for use in industries worldwide. By prioritizing quality over quantity, and investing in research and development, 3-Ci has demonstrated an unwavering commitment to be the best in our field and developed a solid reputation. Our customer focus and hands-on approach has resulted in high customer retention and referral globally.

- Heavy industrial overmolded interconnect solutions
- Customer-driven and focused on schedules and timelines
- ISO 9001:2008 accredited
- Building the best products for the best companies using the best ideas
- In-house Solutions/Engineering team to work with each customer on problem solving and development





# TRANSITION CABLES



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**3-CI DESIGNS MANY DIFFERENT TYPES OF TRANSITION MOLDS.** This includes intersection and Y molded assemblies. In this brochure are just a few of the custom engineered solutions we've developed. Our Engineering team works with our customers to provide specific transition molds and/or specialty overmolded products.

- Extreme environment handling and longevity
- Transition and many other types of Y or interconnect solutions are cleverly engineered to achieve maximum connectivity points with the least amount of individual cable runs
- Customer-driven and focused on schedules and timelines
- ISO 9001:2008 accredited
- In-house Solutions/Engineering team to work with each customer on problem solving and development



# REELS (INCLUDING GROUND REELS)

## 3-CI IS DEDICATED TO PROVIDING CUSTOM MACHINED AND MANUFACTURED PRODUCTS

that withstand the harsh environments of industry. Our customers have a great deal of input into the design of our custom reels as their application or requirement needs. Signal or power cable reels are just some of the many versions we produce. Our ground reels boast many strong features including grounding clamps, a mounting bracket which can be easily mounted, and a robust locking pin to ensure quick and secure attachments of cable.



OUR ONGOING RESEARCH AND DEVELOPMENT WITH CUSTOMERS FOCUSES ON PROVIDING SOLUTIONS FOR ANY POTENTIAL CONCERNS THEY MAY HAVE

- Heavy industrial machined solutions for all types of reels
- Reel packages designed for easy assembly/dismantling for the purpose of transportation worldwide
- Customer-driven and focused on schedules and timelines
- ISO 9001:2008 accredited
- Building the best products for the best companies using the best ideas