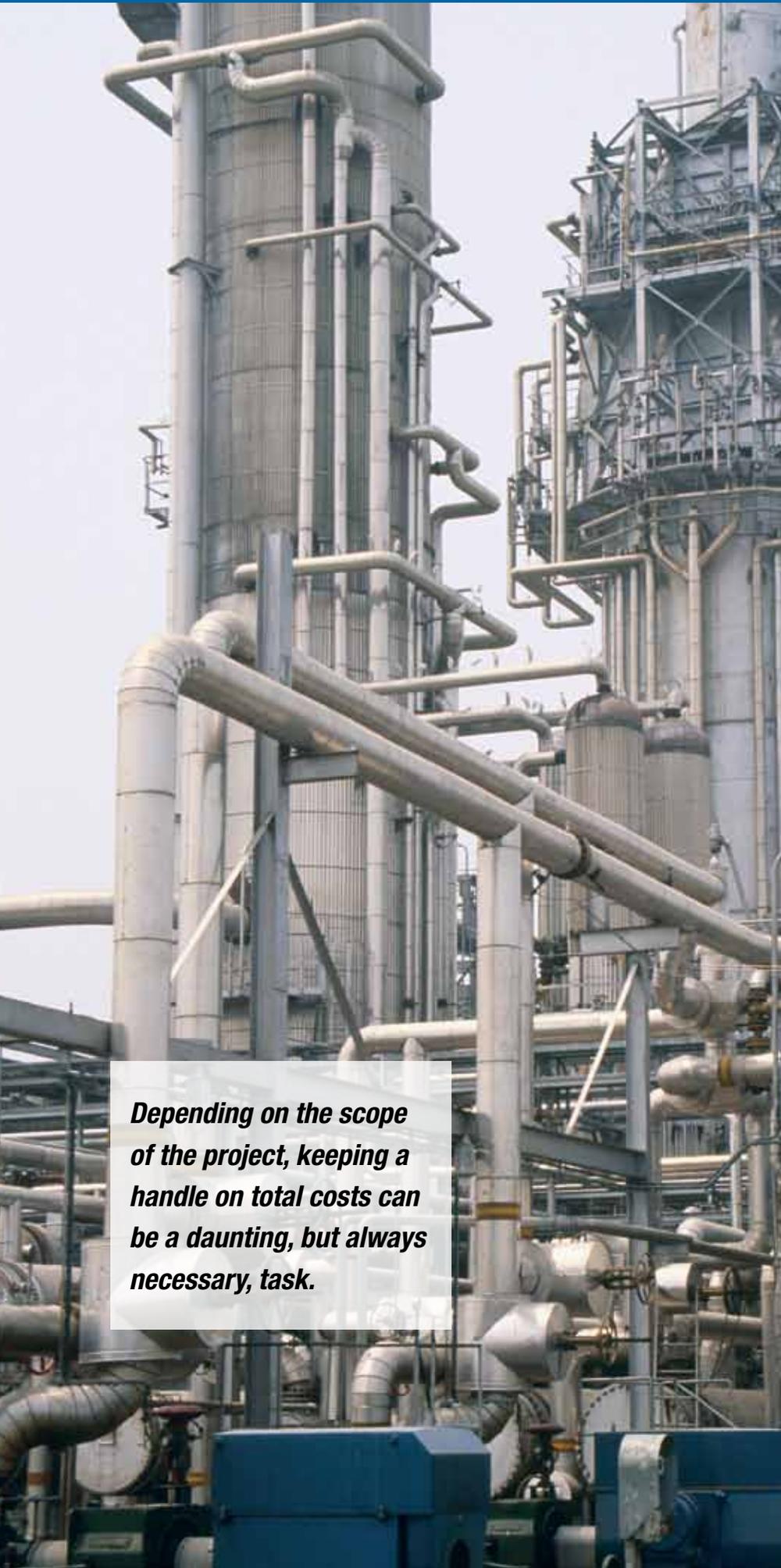




# Total Project Cost Reduction

Thomas & Betts. Your best connection for innovative solutions.

***Thomas & Betts***



*Depending on the scope of the project, keeping a handle on total costs can be a daunting, but always necessary, task.*

**Thomas & Betts Solution Sets**



**Total Project Cost Reduction**



**Corrosion & Harsh Environment Protection**



**Grounding & Bonding**



**Power Quality, Efficiency & Reliability**



**Safety**



**Continuous Operation & Sustainability**



**Hazardous Location Protection**



**Liquid Ingress Protection**



**Extreme Temperature Protection**

## ***Your Challenge: Cutting Costs without Cutting Corners***

Today's competitive environment requires everyone to work harder — and smarter. Every aspect of the way we do business must be examined to identify and eliminate waste.

Whether it's labor, material, logistics or the process, managers must look for the most efficient way to get the job done. At the same time, codes are becoming increasingly stringent, allowing little room for deviation.

## ***Thomas & Betts Can Help You Realize Significant Project Cost Savings***



Thomas & Betts offers a wide array of electrical products designed to provide customers with significant and measurable project cost savings. From reduced maintenance and installation time to reduced inventory investment, savings can add up quickly.

Many T&B® cable fittings, for example, are designed to reduce the number of hub sizes required to accommodate a range of cable diameters. This translates into reduced inventory investment and simplified installation. The Cobra® one-piece cable and pipe clamp comes ready to install, right out of the box. One clamp size attaches equal trade sizes of EMT and rigid conduit to strut channel, reducing inventory and speeding up the installation process. For 90-degree cable termination, the fully adjustable Star Teck Extreme Director™ fitting can reduce installation time by up to 50%.



# Delivering value through system solutions based on engineering innovation

## Our Value Commitment

Thomas & Betts is committed to helping you meet the challenges of total project cost reduction with electrical solutions, services and systems that deliver value. These include:

**T&B Engineered solutions** — Our products are designed to perform dependably under conditions such as constant moisture, harsh chemicals, extreme temperatures, high-pressure washdown, ultraviolet exposure, hazardous areas, high-vibration equipment and continuous operation.

**Tested reliability** — Our products are rigorously tested for use in harsh environments, with proven results in thousands of installations.

**Expert support** — Thomas & Betts trained sales representatives and technical services experts are available at every stage of a project, from planning and site preparation through construction and MRO.

**Training and certification** — Thomas & Betts conducts training programs on specific products and systems and works closely with accredited electrical industry associations. Contact us for details.

**Product availability** — Our industry-leading distributor network assures you of reliable and on-time delivery. This global electrical product support system ensures that our solutions are available when and where you need them.

## Product Platforms

For over a century, Thomas & Betts has provided customers with electrical system solutions to help protect their people and assets, while meeting applicable codes, lowering installed costs and providing overall value.

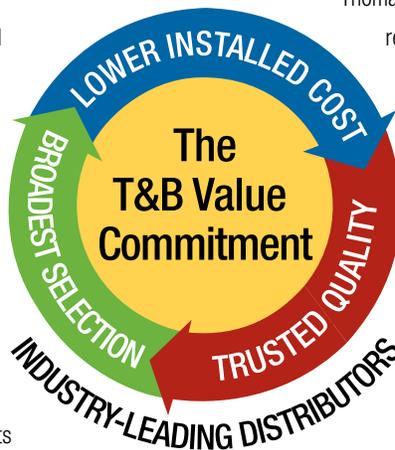
**Wire and Cable Management** — Thomas & Betts invented Ty-Rap® Cable Ties in 1958 and continues to lead the industry in innovative wire and cable management solutions. From cable tray systems and electrical boxes to metal framing and meter sockets, end-users depend on

Thomas & Betts products to get the job done right and to help reduce costs and installation time.

**Cable Protection Systems** — Electrical systems exist in harsh and corrosive environments, extreme temperatures and hazardous locations. Thomas & Betts has engineered, tested and certified cable protection solutions for all types of wires, cables and cords, offering long life and safe, reliable, maintenance-free performance, regardless of environmental conditions.

**Power Connection and Control** — Advanced electronic and electrical systems require signals and controls to be extremely accurate, consistent and reliable. Our power connection and control system solutions make this expectation a reality for your low-, medium- and high-voltage electrical system needs.

**Safety Technology** — Thomas & Betts is a worldwide leader in hazardous location lighting, emergency lighting and supporting central battery systems. We use state-of-the-art technologies to design our electrical system solutions so they meet global safety and reliability standards.





***Thomas & Betts' broad range of high-quality electrical products are designed to provide substantial value and significant project and material cost savings.***

## ***Thomas & Betts products for total project cost reduction***

### **Blackburn®**

- Color-Keyed® Compression Connector and Tool System
- Comfort Crimp® Tools
- HEX-FLEX® Die System
- Motor Lead Disconnects

### **Carlon®**

- ENT (Electrical Non-Metallic Tubing) System
- While-in-Use Outdoor Covers
- Media Boxes
- PVC Conduit

### **Emergi-Lite®**

- Emergency Lighting and Exit Signs
- Nexus®  
Emergency Lighting Management System

### **Hazlux®**

- Quick Pole™ Light Fixture Mounting Assembly

### **Homac®**

- Flood-Seal® Splicing Kits
- Lay-In Type Connectors

### **Iberville®**

- LHTQ™ Boxes
- Roughing-In Components
- Steel Stud Boxes

### **Lumacell®**

- Emergency Lighting and Exit Signs
- Nexus®  
Emergency Lighting Management System

### **Marrette®**

- 833™ Wide-Range,  
Twist-On Winged Wire Connectors

### **Microelectric®**

- Meter Sockets
- Pole Line Hardware and Accessories

### **NuTek™**

- Nonmetallic boxes

### **PMA®**

- Flexible Nylon Conduit Systems

### **Ready-Lite®**

- Emergency Lighting and Exit Signs
- Nexus®  
Emergency Lighting Management System

### **Shrink-Kon™**

- Self-Fusing Insulation Tape

### **Sta-Kon®**

- Push-In Luminaire Disconnects
- Hand Crimping Tools

### **Steel City®**

- Floor Boxes

### **Superstrut®**

- Cobra® One-Piece Cable and Pipe Clamp
- Quick-Clamp® Conduit Clamp
- Trapnut® Strut Fastener

### **T&B® Cable Tray**

- Express Tray® Steel Wire Basket Tray
- Speed Tray® Light-Duty Aluminum Cable Tray

### **T&B® Fittings**

- LU® Universal Conduit Elbow
- Ranger® Portable Cord Fittings
- Star Teck Extreme Director™  
Teck Cable Fittings

### **Ty-Rap®**

- Hand-Held Installation Tools
- Ty-Tote® Cable Tie Dispenser



# Total Project Cost Reduction

## T&B® Fittings

### LU® Universal Conduit Elbow

- The LU® Universal Conduit Elbow doesn't derate a conduit system through the wire fill rating of the fitting, making it possible to use smaller trade size conduit and significantly reduce costs
- 4-to-1 SKU reduction — replaces LL, LR, LB and C conduit bodies
- Functions as three elbows in one, going almost anywhere a 90° bend is required
- Radius is the same as the bent conduit
- Angles cover port — easier wire pulling and uses standard covers
- Available in BlueKote® and stainless steel versions
- CSA Certified as an enclosure — splices allowed inside the LU®
- Rated for 40% wire fill



## Blackburn®

### Motor Lead Disconnects



- Cut labor time in half with the only pin-spring and insulation system in the market
- Quick change out of electric motors with no bolting, taping or loose connections
- Featuring the Color-Keyed® Compression System that ensures proper connections

## Blackburn®

### Comfort Crimp® Tools

- Designed for ergonomic ease of use and efficiency
- Featuring the Color-Keyed® Compression System that ensures proper connections



## Blackburn®

### Color-Keyed® Compression Connectors and Tool System

- Reduce installation cost with a minimum amount of crimps and effort required to install
- Featuring the Color-Keyed® Compression System that ensures proper connections



## Blackburn®

### HEX-FLEX® Die System



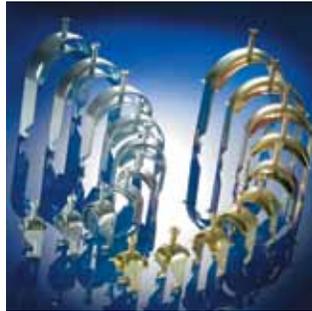
- Reduces labor by providing a superior termination with fewer crimps
- Featuring the Color-Keyed® Compression System that ensures proper connections



# Total Project Cost Reduction

## Superstrut®

- Cobra® one-piece cable and pipe clamp – ready to install, right out of the box
- Quik-Clamp® one piece conduit clamp – half the installation time of break apart clamps
- Trapnut® strut fastener – saves time in new construction and retrofit applications



## Ty-Rap®

### Hand-Held Installation Tools



- Designed for ergonomic ease of use and efficiency

## Hazlux®

### Quick Pole™ Light Fixture Mounting Assembly

- Suitable for 180km/h winds as per AASHTO LTS-4 2001
- Easy one-man operation - no ladders or lifts required
- Frees up catwalks and walkways during maintenance



## Sta-Kon®

### Comfort Crimp® Tools



- Designed for ergonomic ease of use and efficiency

## Carlon®

### ENT (Electrical Non-Metallic Tubing) System

- Cut installation time as compared to rigid PVC conduit
- Material-handling savings with lightweight, flexible coils
- Time savings with Quick Connect fittings



## PMA®

### Flexible Nylon Conduit Systems

- Snap-in installation provides a quick and secure connection, saving time and money
- PMA® has nylon conduit systems specifically designed for extreme-temperature environments
- Conduits for technically demanding applications and special requirements
- Conduit sizes range from 6mm to 125mm diameters, from lightweight to heavyweight, and pliable to highly flexible
- Standard colors are black and gray
- Many conduits are specially approved, e.g. CSA, UL® Recognition, NF, SNCF, DB, etc.





# Total Project Cost Reduction

## IBERVILLE

### LHTQ™ Boxes, Covers and Accessories

- Time-saving features for wood studs
- Increased cubic capacity and fast, accurate installations
- CSA-approved for one screw mounting up to 2-gang
- Holding prongs provide temporary support, leaving hands free to complete installation



## IBERVILLE

### BCR2000™ Low-Profile Box

- Eliminates need to cut into vapour barrier, eliminating air infiltration and drastically reducing installation time



## IBERVILLE

### Steel Stud Boxes

- Labor saving SSX boxes with mounting strap for steel stud installations and integral additional support bracket



## NuTek®

### Nonmetallic Boxes

- Large-capacity nonmetallic boxes
- R2000-compliant airtight models with closed cell foam gaskets
- Self-clamping cable entry tabs



## marrette®

### Wire Connectors

- 833™ Wide-Range, Twist-On Winged Wire Connector



## IBERVILLE

### Fittings

- CI4004 snap-in, self-locking plastic cable connectors



# Total Project Cost Reduction



## Steel Wire Basket Tray

- No complicated layouts – customize cable infrastructures on site
- Ideal for light power, data and voice cabling
- Any lay-out can be achieved with a piece of tray and a wire cutter
- Patented QuikLok™ tray profile connects straight lengths of tray at record speed with no additional components or tools required
- Easy reconfiguration to meet future needs



## Light-Duty Aluminum Cable Tray System

- Manufactured of strong, lightweight aluminum
- System is easy to handle and “speedy” to install.
- Typical applications include:
  - Telecom and CATV wiring
  - LAN cabling and wiring closets
  - Marine vessel wiring
  - Light duty electrical wiring projects in commercial or industrial facilities



## T&B® Fittings

### Star Teck Extreme Director™ Adjustable Teck Fitting

- Drastically reduces installation time when terminating teck cable in applications where angle adjustments are required
- Takes up less space and is more flexible than traditional termination methods such as 90-degree elbows and LB conduit bodies
- Exclusive swash-plate design allows the STED™ to adjust from 90 to 180 degrees - the industry's first truly adjustable, range-taking fitting
- Can save on installation time by up to 50% compared to traditional 90-degree termination methods



## Shrink-Kon™

### Self Fusing Insulation Tape

- Instant low-cost durable solution for repairs to deteriorated insulation on cables and conductors
- Insulates and seals underground and above-ground bonding installations
- Insulates harnessing, bundling, cabling and wiring in aircraft, automotive, marine and other industrial machinery and equipment
- Ideal for motor connections
- Protects against vibration, scratching and moisture





# Total Project Cost Reduction

**EMERGI-LITE®**

**LUMACELL®** **READY-LITE®**

## **Nexus® Emergency Lighting Management System**

- Enables remote monitoring and control of an entire emergency lighting system, including multiple locations, from one central location
- Performs scheduled testing and generates reports to ensure compliance to building and life-safety codes
- Automates the inspection process, significantly reducing maintenance costs while enhancing safety
- Can contribute to LEED credits



**EMERGI-LITE®**

**LUMACELL®** **READY-LITE®**

## **EZ2 Canopy for Exit Signs**

- Contractor-friendly feature offered on many exit signs
- Allows all electrical connections to be made using both hands
- Simply attach the plate to the junction box, clip the canopy on the EXIT sign and hang the canopy on the back plate
- All connections can be made simply and easily using both hands
- Slide the unit into place, install one screw and the job is done



**HOMAC®**

## **Lay-in Type Connectors**

- Homac® offers a complete line of EZ-Keeper® lay-in type connectors for transformer applications that save time and labor
- Cables are easily placed into the keeper slot
- Minimize the hassle and hazards of having to force cables into the closed cable ports found on conventional mechanical connectors
- Require only a cable stripper and Allen hex wrench — no crimping tools or dies or other special tools are needed for installation
- Dual-rated for use with aluminum or copper cable
- Ball-bottom screws ensure even force distribution in the cable/connector interface



**HOMAC®**

## **Flood-Seal® Splicing Kits**

- RRK Flood-Seal® Splicing Kit's one-piece cover and connector allow for quick installation over other industry methods
- Radiating rib design dissipates heat, centers the watertight insulating cover and seals perfectly every time
- Rubber Flood-Seal® insulating cover fits snugly for maximum heat dissipation, no tape required
- Compact size allows you to install connectors on up to 4/0 AWG cable in only 10" of space using UT 3 M or UT 3 tools
- Prefilled with oxide inhibitor to prevent oxidation and keep out moisture
- Exceed ANSI C119.4 requirements and are RUS Accepted





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## Visit the Thomas & Betts world of electrical product solutions

Visit our web site for more information about Thomas & Betts solutions and our newest products. For a user-friendly catalogue and competitive part number search, application and technical support and other useful information, go to: [www.tnb.ca](http://www.tnb.ca)

## Industry codes and specifications

All Thomas & Betts products meet or exceed applicable industry specifications or codes detailed in the appropriate Thomas & Betts product literature.



## Online CAD library

Thomas & Betts offers free download of two- and three-dimensional CAD models of many of its products in more than 90 native CAD formats at: [www.tnb.com/cadlibrary](http://www.tnb.com/cadlibrary)



All information and specifications contained in this catalogue are subject to change due to engineer design, errors and omissions. Illustrations and diagrams within this catalogue may vary from actual products.

Thomas & Betts. Your best connection for innovative solutions.

Wire & Cable Management • Cable Protection Systems • Power Connection & Control • Safety Technology

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