

Safety Solutions

Thomas & Betts. Your best connection for innovative solutions.

Thomas & Betts

Safety concerns are not market specific. They affect workers, production schedules and the bottom line across a broad spectrum of industries.

Thomas & Betts Solution Sets



Safety



Corrosion & Harsh Environment Protection



Grounding & Bonding



Power Quality, Efficiency & Reliability



Continuous Operation & Sustainability



Hazardous Location Protection



Total Project Cost Reduction



Liquid Ingress Protection



Extreme Temperature Protection

No One is Immune from Safety Concerns

Safety issues affect every industry, from food and beverage processing facilities to manufacturing plants to power generating stations. In many industries — like food and chemical processing, mining, oil and gas exploration and utilities — worker safety is of paramount importance.

Reflecting the critical nature of these areas, local, provincial and federal agencies are continually monitoring operations and enforcing regulations designed to reduce the chance for injuries. Fines and lost revenue due to non-compliance with the myriad of regulations affecting businesses can be crippling.

Add to this demanding production schedules and a globally competitive environment, and it is clear that employers cannot risk the downtime, costs and health risks associated with safety concerns.

Thomas & Betts Products Can Help Ensure a Safe Environment



From protecting electrical systems and equipment from unexpected failures that might lead to an environmental incident to providing hazardous material identification and emergency lighting systems, Thomas & Betts provides a wide variety of electrical systems and components to help ensure the safety of facilities, equipment, processed or manufactured products and, most important, people.

Thomas & Betts solutions address critical issues in every area of your operation, so you can focus on cost, quality, flexibility, safety and production cycle challenges across your enterprise. Whether it's Homac® Break-Away Devices that provide a safe, controlled disconnect of power in the event of an incident to the service cable, or our Nexus® Emergency Lighting Management System, we have the solutions you're looking for.



Delivering value through system solutions based on engineering innovation

Our Value Commitment

Thomas & Betts is committed to helping you meet safety challenges 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 products for safety

Blackburn®

- E-Z-Ground® Compression Connectors
- Mechanical Grounding Connectors
- Exothermic Welding System
- Metallic Gradient Control Mat
- Ground Rods

Carlton®

- Hal-Free Riser Gard™ Metallic Flexible Raceway

Emergi-Lite®

- Emergency Lighting and Central Battery Systems
- Nexus® Emergency Lighting Management System

E-Z-CODE®

- Identification Products

Hazlux®

- Industrial Lighting Fixtures for Hazardous and Adverse Environments
- Quick-Pole™ Light Fixture Mounting Assembly

Hi-Tech®

- Current Limiting Fuses

Homac®

- Storm Safe® Break-Away Device for Overhead Service Drops

Kopex™

- Stainless Steel Flexible Conduit
- Explosion-Proof Raceway System

Lumacell®

- Emergency Lighting and Central Battery Systems
- Nexus® Emergency Lighting Management System

Marrette®

- Luminaire Disconnects

PMA®

- Halogen-Free Flexible Nylon Conduit Systems

Ready-Lite®

- Emergency Lighting and Central Battery Systems
- Nexus® Emergency Lighting Management System

Red•Dot®

- Explosion-Proof Boxes, Conduit Fittings, Unions and Sealing Fittings
- Code-Keeper While-In-Use Covers

Reznor®

- EXUB Explosion-Resistant Electric Unit Heaters

Russellstoll®

- Pin-and-Sleeve Interconnections
- GSUL Safe Ground Indicator System

Shrink-Kon™

- Insulation products

Sta-Kon®

- Push-In Luminaire Disconnects

Steel City®

- Fire Alarm Boxes and Fittings

Superstrut®

- Seismic Bracing System

T&B® Fittings

- Star Teck XP® Explosion-Proof Fittings
- Tray Star® Explosion-Proof Tray Cable and Flexible Conduit Fittings
- Liqueatite® ZHLA and ACEA Non-Halogen Flexible Conduit

Ty-Duct™

- Halogen-Free Wiring Duct

Ty-Rap®

- High-Performance Cable Ties and Accessories
- Stainless Steel Cable Ties

Don't sacrifice safety for productivity. Thomas & Betts has the right products to keep your machinery up and running and your employees safe and protected.



Safety Solutions

T&B® Fittings

Liquatite® Flexible Conduit

- Type ZHLA and ACEA non-halogen, low-smoke, flame-retardant flexible conduit with metallic inner core for mechanical protection
- Ideal for installation in confined public areas



KOPEX™

Stainless Steel Flexible Conduit

- Designed to meet CSA, UL, IECEx and ATEX standards for hazardous environments
- Made from Type 316 stainless steel
- Explosion-Proof Raceway System



E-Z-CODE®

Identification Products

- E-Z-CODE® identification products increase safety through proper, clear identification and hazard awareness



HOMAC®

Storm-Safe® Break-Away Device for Overhead Service Drops

- Installs between transformer and service drop
- Provides controlled disconnect of power in the event of an incident to the service cable
- Prevents damage to utility equipment and customer premises
- Increases public and crew safety



Superstrut®

Channel and Accessories

- Seismic bracing system for piping, conduit, duct and cable tray systems



Safety Solutions

Ty-Rap®

High-Performance Cable Ties and Accessories

- Detectable ties reduce risk of contamination
- Fluoropolymer (Halar) low-smoke cable ties
- Fluoropolymer (Tefzel®) radiation-resistant cable ties

Tefzel is a registered trademark of DuPont Corporation.



HOMAC®

Street Light Kits

- Complete line of different compression and mechanical break-away street light kits that are required on all federal highways
- Connections break away under tension and provide a safe disconnect of power to the street light
- Insulated with Flood-Seal® housings and watertight for submersible applications



Blackburn®

Metallic Gradient Control Mat

- Reduce risk and prevent build up of dangerous potential differences between high voltage equipment or structures and the user standing on the ground surface



EMERGI-LITE® /

LUMACELL® / READY-LITE®

Emergency Lighting and Central Battery Systems

- Emergency and exit lighting systems for both ordinary and hazardous locations
- Energy efficient and aesthetic, concealed or surface mount
- Modern-design exit signage
- Custom signage with special wording configurations
- Designed to withstand damp, corrosive conditions
- Energy efficient with long, low-maintenance service life
- Central battery systems provide back-up power for emergency lighting systems



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





Safety Solutions

PMA®

Flexible Nylon Conduit Systems

- Nylon cable protection systems free from halogens
- Self-extinguishing
- Resistant to highly corrosive chemicals



Hi-Tech®

Current-Limiting Fuses

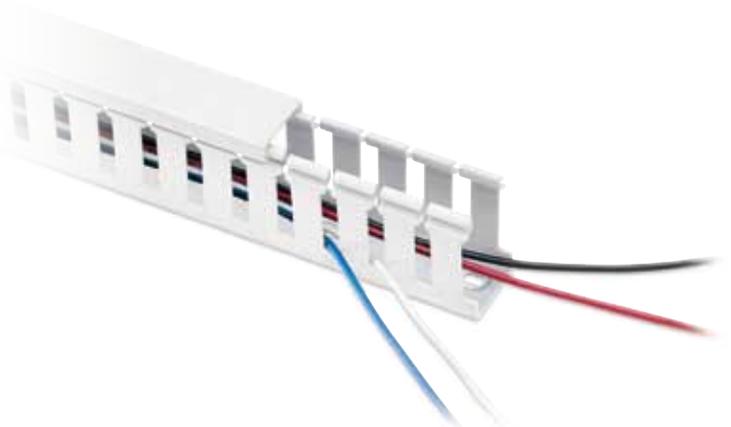
- Reduced arc flash energy
- Protect against transformer tank rupture



Ty-Duct™

Wiring Duct

- Halogen-free material available to provide added safety in case of fire
- Available in solid, wide slot, narrow slot and round hole versions to meet your capacity and flexibility needs
- Interlocking cover with protective peel-off film
- Wide range of sizes and colors



Carlon®

Hal-Free Riser-Gard™

- Halogen-free nonmetallic flexible raceway for use in riser and general purpose applications
- Ideal for applications in tunnels, laboratories and high-tech environments



Safety Solutions

Russellstoll®

Pin-and-Sleeve Interconnections

- O-ring sealed pin and sleeves ensure personal safety by preventing electrical risks due to liquid or contaminant penetration into the connector device housing
- MaxGard® interconnection systems for hazardous locations
- GSUL safe ground indicator system indicates establishment of safe ground and prevents pump operation until safe ground is established



Steel City®

Fire Alarm Boxes and Fittings

- Bright red finish eliminates time-consuming painting of existing fixtures and provides long-lasting identification in even the harshest environments



Hazlux®

Industrial Lighting Fixtures

- Certified to withstand the demands of hazardous locations and adverse environments
- Explosion-proof fixtures for Class I, II, and III hazardous locations
- Enclosed gasket and rated NEMA 4X, IP66 and UL 1598 for wet and marine locations



Quick Pole™ Light Fixture Mounting Assembly

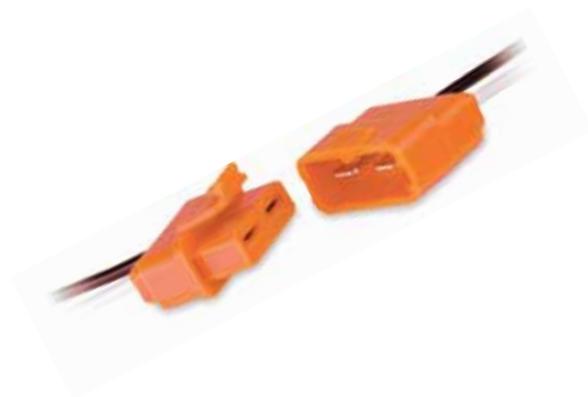
- Suitable for 180km/h winds as per AASHTO LTS-4 2001
- Easy one-man operation - no ladders or lifts required
- Frees up catwalks and walkways during maintenance



Sta-Kon®

Push-In Luminaire Disconnects

- Enables electricians changing ballasts to easily disconnect incoming power for safe servicing without having to trip the main power breaker
- Ballast hot-lead wire entry is color-coded black for easy visibility
- Finger-safe on both sides
- For use in all non-residential fluorescent lighting applications and in ordinary location HID lighting applications — both up to 600V, 4 A maximum





Safety Solutions

T&B® Fittings

Star Teck XP® Explosion-Proof Teck Cable Fittings

- Easy to fill, integral sealing chamber and disconnecting design requires minimal cable preparation
- Benchmark for ease of installation in hazardous locations
- Provides grounding continuity of cable armor

Tray Star® Explosion-Proof Tray Cable and Flexible Conduit Fittings

- Offers all of the advantages of Star Teck XP® for tray cable and flexible metal conduit applications



Shrink-Kon™

Insulation Products

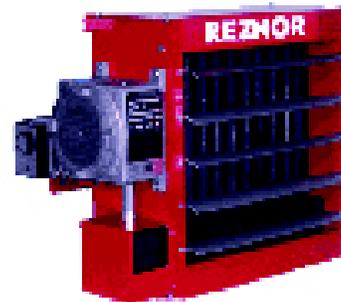
- Heavy-wall heat-shrinkable tubing withstands severe mechanical requirements of U.R.D., submersible, and direct burial installations while offering high-voltage electrical insulation
- Self-fusing insulation tape



REZNOR®

EXUB Explosion-Resistant Electric Unit Heaters

- Provide primary or supplementary heating for comfort or freeze protection in areas that are classified as hazardous locations



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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

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



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.

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

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