



Electrical Solutions
for
**Commercial and Institutional
Facilities**

Thomas & Betts. Your best connection for innovative solutions.

Thomas & Betts

Key business drivers for commercial and institutional construction

- ***Improve operational efficiencies while maintaining high quality***
- ***Provide for the safety of employees and future building tenants***
- ***Complete projects profitably, on time and within budget***



Delivering value through system solutions based on engineering innovation

Our Value Commitment

Electrical installers for commercial and institutional facilities must meet demanding project schedules while maintaining quality and safety and improving their profitability. Thomas & Betts is committed to helping you meet these 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.

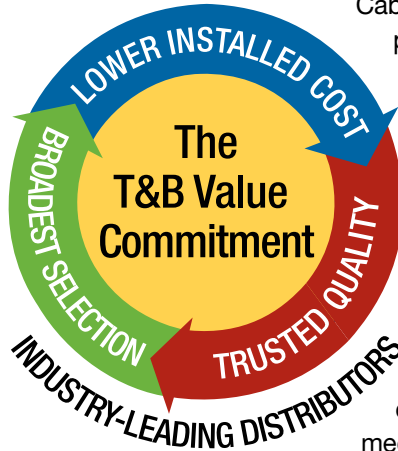
Product Platforms

Wire and Cable Management — Thomas & Betts invented the Ty-Rap® cable tie in 1958 and continues to lead the world in innovative wire and cable management. OEMs, panel builders, contractors and maintenance personnel depend on our electrical boxes, cable ties, weatherproof enclosures, cable tray and modular metal framing to do the job right and help reduce installation time and costs.

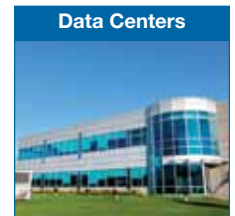
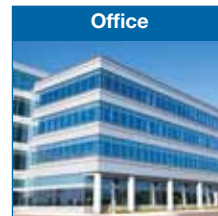
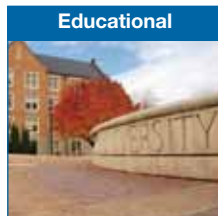
Cable Protection Systems — Thomas & Betts Cable Protection Systems provide unsurpassed protection for wire and cables in the most demanding applications. They encompass industry-leading flexible conduit systems, PVC-coated conduit and fittings recognized as the standard in oil and gas applications and explosion-proof conduit systems meeting worldwide standards for hazardous locations.

Power Connection and Control — For reliable connection and intelligent control of electrical power, Thomas & Betts' mechanical and compression connectors, grounding products, medium-voltage cable accessories, high-voltage fuses, vacuum interrupters, reclosers and capacitor switches are specified worldwide in the industrial, construction and utility markets.

Safety Technology — Protecting lives and property requires state-of-the-art technology. Thomas & Betts is a worldwide leader in emergency lighting and supporting central battery systems, and lighting for hazardous locations. Our Safety Technology products extend the life of your electrical system and protect your employees and assets.



Commercial and Institutional Facilities



T&B Engineered solutions for every project

- Healthcare
- Educational
- Retail
- Hospitality
- Office
- Data Centers



Thomas & Betts understands the challenges faced in commercial and institutional projects and is committed to providing innovative electrical solutions that not only reduce overall project costs, but also increase safety, promote sustainability and even improve cash flow. Whether it's labor-saving rough-in components, custom-designed electrical prefabrication systems, online cloud-based design tools or even our world-class logistics, Thomas & Betts can help bring commercial and institutional projects in on time, within budget and profitably.



Electrical System Issues for Commercial and Institutional Facilities



**Total Project Cost
Reduction**



**Continuous Operation
& Sustainability**



Grounding & Bonding



Safety



**Power Quality,
Efficiency & Reliability**



**Liquid Ingress
Protection**



Total Project Cost Reduction

The single largest expense for an electrical contractor on any commercial construction project is labor. While it is important to have experienced electricians installing sophisticated electrical systems, much of their time is spent on labor-intensive rough-in tasks, assembling the thousands of components that come together in a wall or ceiling to route, terminate, support and protect a complex commercial or institutional electrical system. Thomas & Betts offers innovative solutions to reduce installation costs.



IBERVILLE

Boxes and Fittings

- Industry's most complete selection of steel boxes
- Labor saving SSX boxes with mounting strap for steel stud installations and integral additional support bracket
- Economically priced fittings for cable and all types of conduit

marrette®

Wire Connectors

- 833™ wide range, twist-on winged wire connector - one size accommodates the majority of wire combinations

Carlton®

ENT (Electrical Nonmetallic Tubing) System

- Cut installation time as compared to rigid PVC conduit
- Material-handling savings with lightweight, flexible coils
- Time savings with quick connect mud box assemblies and fittings



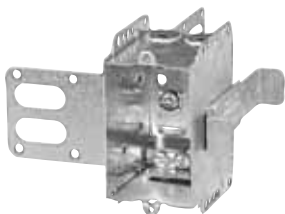
The Fast Track in Cable Management

- 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

Blackburn®

Compression Connectors

- Featuring the Color-Keyed® Compression System that ensures proper connections
- Boost efficiency with fewer crimps that yield superior terminations
- Ergonomic compression tools speed up installation and ensure operator comfort



Iberville®
Steel Boxes



Marrette®
Wire Connectors



Carlton®
ENT System



ExpressTray®
Wire Basket Tray



Blackburn®
Compression
Connectors



Contractors make or break the bank within the wall and ceiling, with installation costs reflecting 60–70% of a project.

Thomas & Betts products for total project cost reduction

Blackburn®

- Compression Connectors
- Motor Lead Disconnects
- Ergonomic Compression Tools
- Standard and HEX-FLEX® Crimp Die Systems

Carlton®

- ENT System

Iberville®

- Boxes and Covers
- Fittings

Marrette®

- Twist-On Wire Connectors

Reznor®

- Heating, Ventilation and Cooling Systems

Superstrut®

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

T&B® Cable Tray Systems

- SpeedTray™ Light-Duty Aluminum Cable Tray
- ExpressTray® Light-Duty Steel Wire Basket Tray

Continuous Operation & Sustainability

Technology and regulatory evolution are driving change throughout our commercial and institutional facilities. Thomas & Betts is focused on providing innovative electrical solutions that are not only highly durable and maintain integrity over time, but are also flexible to efficiently accommodate future demands.



red dot / Carlon®

Weatherproof While-in-Use Covers

- Durable protection for outdoor electrical outlets
- Ideal for parking garage power support
- Complies with CEC standards
- Rugged metal covers provide long service life and superior protection

Steel City®

High-Capacity Floor Boxes

- Durable, high-capacity, in-floor electrical solutions, such as the 68-HP and 665-AV2, provide sustainability to meet current and future power and data wiring needs
- Also allow for running of pre-terminated low-voltage cable
- Save time by offering the highest quality BIM models for all in-floor electrical and low-voltage needs in a hospital
- All-metal cover options, including stainless steel, aluminum and brass, resist damage and provide durability in high-traffic areas

REZNOR®

Heating-Cooling Make-Up Air Systems

- Outside air dehumidification
- Hotel and motel corridor air conditioning
- Medical facility replacement air for waiting rooms, surgery centers and corridors

elastimold®

Solid-Dielectric Switchgear

- Shielded, solid-dielectric switchgear
- Compact and lightweight
- Uses no oil or gas

Separable Connectors

- Shielded, deadfront, high-voltage cable connector systems
- Underground cable accessories for 5 to 35kV, including elbows, joints and terminations
- Underground surge arresters



Red Dot®
Weatherproof
While-in-Use Covers

Steel City®
68-HP Floor Boxes

Reznor®
Heating-Cooling
Make-Up Air Systems

Elastimold®
Solid-Dielectric
Switchgear

Elastimold®
Separable Connectors



Thomas & Betts products for continuous operation and sustainability

Carlton®

- PVC Conduit and Fittings Systems

Elastimold®

- Solid-Dielectric Switchgear
- Separable Connectors

Emergi-Lite®

- EMEX Central Battery Systems

Iberville®

- Steel Boxes and Covers
- Fittings
- Roughing-In Products

Lumacell®

- ARGES Central Battery Systems

Marrette®

- Twist-On Wire Connectors

Ready-Lite®

- Central DC Battery Systems

Red Dot® /Carlton®

- Weatherproof While-in-Use Covers

Reznor®

- Heating, Ventilation and Cooling Systems

Shrink-Kon™

- Cable, Wire and Connector Insulation Products

Sta-Kon®

- Nylon, Vinyl and Non-Insulated Terminals
- Comfort Crimp® Compression Tools

Steel City®

- 68-HP Floor Boxes
- 665-AV2 Floor Boxes

T&B® Cable Tray Systems

- Conventional Metallic and Nonmetallic Cable Tray Systems
- SpeedTray™ Light-Duty Aluminum Cable Tray
- ExpressTray® Light-Duty Steel Wire Basket Tray

Thomas & Betts provides electrical systems and components to ensure continuous operation, minimal downtime and sustainability to meet future needs.



Grounding & Bonding

A stable, reliable power supply is the backbone of any building, plant or facility. Power failure or instability as the result of inadequately designed systems can cause major safety, production and operational concerns. Thomas & Betts offers a wide range of proven bonding and grounding products and tools for commercial and institutional applications, designed to ensure superior electrical system performance and reliability.



Blackburn®

Grounding Systems

E-Z-Ground® Compression Connectors

- High-conductivity copper and bronze connectors for direct burial, OEM and telecom applications

Exothermic Welding Systems

- Simple, self-contained systems to form high quality electrical connections

Mechanical Grounding Connectors

- High-strength split-bolt connectors for copper-to-copper connections
- Service post connectors for steel structures, fence posts or transformers using one or two cables

Grounding Components

- Ground rods
- Metallic gradient control mat
- Electrode boxes
- Compression tools and dies

T&B Fittings

Grounding Fittings

- Bond Star® grounding lock-nut for use in data and control applications sensitive to floating voltage differences
- XD expansion/deflection coupling for rigid conduit with internal bonding strap
- Revolver® grounding ring allows for flexible positioning

IBERVILLE

Grounding Fittings

- Grounding bushings
- Water pipe and ground rod connectors

BOREAL

Flexible Braided Connectors

- A wide variety of grounding and bonding straps



Blackburn®
Ground Rods



Blackburn®
E-Z-Ground®
Compression Connectors



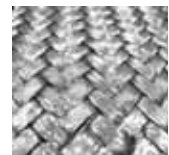
Blackburn®
Mechanical
Grounding Connectors




T&B® Fittings
Revolver® Grounding
Fittings



Iberville®
Water Pipe
and Ground Rod
Connectors



Boreal®
Flexible Braided
Connectors



Thomas & Betts can provide onsite grounding and bonding training for your employees.

Thomas & Betts products for grounding and bonding

Blackburn®

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

Boreal®

- Flexible Braided Grounding Connectors and Bonding Jumpers

Iberville®

- Grounding Bushings
- Water Pipe and Ground Rod Connectors

Sta-Kon®

- Nylon, Vinyl and Non-Insulated Terminals
- Shield-Kon® Coaxial Grounding Connectors
- Comfort Crimp® Compression Tools

T&B® Fittings

- Revolver® Grounding Fittings
- Bond Star® Grounding Lock-Nut
- Star Teck® and Star Teck XP® fittings for Jacketed Metal Clad and Teck Cable
- XD Expansion/Deflection Coupling



Safety

Thomas & Betts is committed to bringing to market solutions that provide a safer installation as well as a safer working or living environment. As an active participant in Canadian Electrical Code and National Building Code of Canada technical committees, as well as being a member of Electro-Federation Canada, Thomas & Betts helps drive industry-wide code changes or updates in design standards to support our commitment to industry-wide safety.

EMERGI-LITE® / LUMACELL® / READY-LITE®

Emergency Lighting Systems

- Energy-efficient and aesthetic concealed or surface-mount emergency lighting for healthcare facilities
- Energy-efficient, modern-design exit signage
- Custom signage with special wording configurations

Nexus® Emergency Lighting Management System

- Remote monitoring and control from one central unit
- Enhances safety while decreasing maintenance costs
- Can contribute to LEED credits

Carlton®

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



Ty-Rap®

High-Performance Cable Ties

- High-performance cable ties available in materials suitable for providing long-term premium support in any environment
- Plenum-rated for use in air-handling spaces above ceilings and under floors
- Weather-resistant for rooftops and other outdoor applications
- Stainless steel for corrosive environments
- Ergonomic installation tool

T&B® Fittings

Liquatite® Flexible Conduit

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

Steel City®

Fire Alarm Boxes and Fittings

- Bright red finish for long-lasting visibility in even the harshest environments




**Emergi-Lite®/
Lumacell®/ Ready-Lite®**
Emergency Lighting
Systems

Nexus®
Emergency Lighting
Management System

Carlton®
Hal-Free Riser-Gard™
Raceway

Ty-Rap®
High-Performance
Cable Ties

Steel-City®
Fire Alarm Boxes



Emergi-Lite®, ***Lumacell®***
and Ready-Lite® Emergency
Lighting Systems include exit
signs, emergency lighting and
central battery systems. The
Nexus® Emergency Lighting
Management System ties the
entire package into a system
solution that lowers workload
by providing testing and
monitoring from any location
in the world to meet monthly
testing code requirements.

Thomas & Betts products for safety

Carlton®

- Hal-Free Riser-Gard™ Halogen-Free Nonmetallic Flexible Raceway

Emergi-Lite®

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

E-Z-Code®

- Danger/Warning Labels and Signs, Industrial/Wire Markers, Barricade/Burial Tape

Lumacell®

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

Marrette®

- Luminaire disconnects

Ready-Lite®

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

Steel City®

- Fire Alarm Boxes and Fittings

Superstrut®

- Seismic Bracing System

T&B® Fittings

- Liqueatite® ZHLA and ACEA Non-Halogen Flexible Conduit

Ty-Rap®

- High-Performance Cable Ties
- Ty-Rap® Tote Dispensers and Ergonomic Installation Tools
- Flame-Retardant Cable Ties
- Halar® Cable Ties for Air Handling Spaces

Power Quality, Efficiency & Reliability

Thomas & Betts power solutions provide peace of mind for building occupants that comes from knowing equipment is safe and secure from the consequences of unpredictable power. By designing the world-class standard in power equipment, Thomas & Betts has become a leader in custom-designed digital static transfer switches and power distribution systems.



elastimold

Switchgear and Cable Accessories

- Solid-dielectric, maintenance-free switchgear for application in vault, riser pole and pad mount installations
- A full line of loadbreak and deadbreak separable connectors, cable joints and cable terminators
- Developed for 5 to 35 kV distribution systems

MICROELECTRIC[®]

Meter Sockets

- Weatherproof under the NEMA Type 3R standard
- CSA-approved for copper or aluminum conductor
- Designed to accept conduit hubs up to 2-1/2 inches
- Four and five jaw configurations
- Available for overhead, underground or combined commercial services

JOSLYN

Overhead Switches and Reclosers

- Capacitor switches for distribution and substations
- Reclosers
- Interrupter accessories for disconnect switches

EMERGI-LITE[®] / **LUMACELL**[®] / **READY-LITE**

Central Battery Systems

- Fully automatic charger, battery and specified transfer and distribution features
- Offer all of the advantages of a central location for maintenance with full supervision of all operating functions



Elastimold[®]
Solid Dielectric Switchgear




Microelectric[®]
Meter Sockets



Joslyn Hi-Voltage[™]
Recloser



Emergi-Lite[®]/
Lumacell[®]/ **Ready-Lite**[®]
Central Battery Systems



Thomas & Betts power quality solutions protect and maintain the functionality of critical electrical systems.

Thomas & Betts products for power quality, efficiency and reliability

Blackburn®

- E-Z-Ground™ Compression Connectors
- Color-Keyed® Compression Lugs and Splices
- Exothermic Welding System
- Ground Rods

Elastimold®

- High-Voltage Separable Connectors and Solid-Dielectric Switchgear

Emergi-Lite®

- EMEX Central Battery Systems

Fisher Pierce®

- Faulted Circuit Indicators

Hi-Tech®

- Current-Limiting Fuses

Homac®

- Copper Flood-Seal Compression Splice Kits
- Substation Connectors

Joslyn Hi-Voltage™

- Capacitor Switches and Air Disconnect Switches

Lumacell®

- ARGES Central Battery Systems

Microelectric®

- Meter Sockets
- Pole Line Hardware and Accessories

Ready-Lite®

- Central DC Battery Systems

Russellstollc®

- Computer System Plugs, Connectors and Receptacles



Liquid Ingress Protection

Allowing liquid to migrate into electrical components can have a significant impact on the reliability and longevity of electrical systems, resulting in premature deterioration, unscheduled maintenance and unplanned expense.

Thomas & Betts offers a complete catalogue of components specifically designed to protect electrical equipment and systems from the corrosion and damage caused by liquid ingress.



Carlton®

PVC Fittings and Flex Conduit

- One-piece fitting body design requires no disassembly of components for installation
- Liquidtight flexible nonmetallic conduit
- Conduit is non-conductive, non-corrosive and resistant to oil, acid, ozone, and alkaline

T&B® Fittings

Stainless Steel, Aluminum, Nonmetallic Fittings, Flexible Metallic and Nonmetallic Conduit

- Liquatite® flexible metallic PVC jacket conduit
- Star Teck® type 316 stainless steel fittings up to 2-inch hub sizes.
- PVC-coated portable cord, cable and conduit fittings offered in all sizes
- Silver Grip® fittings in stainless steel and aluminum for liquidtight installations when using portable cord

red•dot®

Code-Keeper® Weatherproof While-in-Use Covers

- Superior weather and liquid ingress protection
- Extra-duty metallic weatherproof covers
- Alloy A380 aluminum and stainless steel springs for increased corrosion resistance and durability

Russellstoll®

Waterproof Pin and Sleeve Interconnections

- O-ring sealed pin and sleeves ensure protection against liquid ingress into the connector housing
- Standard Neoprene O-ringed interior components provide separation at the front of each device
- All system components use mating screw collars

EMERGI-LITE® / LUMACELL® / READY-LITE®

Exit Signs and Emergency Lighting for Wet Locations

- NEMA-4X certified for wall or ceiling mount
- NSF-certified for food processing
- High-efficiency MR16 lamps up to 12V, 12W or white LED emergency lights
- Comes standard with tamperproof screw



Carlton®
PVC Fittings
and Flex Conduit



T&B® Fittings
Stainless Steel, Aluminum,
Nonmetallic Fittings,
Flexible Metallic and
Nonmetallic Conduit



Red•Dot®
Code-Keeper®
Weatherproof
While-in-Use Covers



Russellstoll®
Waterproof Pin
and Sleeve
Interconnections



Emergi-Lite®/
Lumacell®/ Ready-Lite®
Exit Signs and
Emergency Lighting
for Wet Locations

The financial impact of allowing liquid to migrate into electrical systems can be significant - whether the result of downtime or having to replace damaged components.

Thomas & Betts products for liquid ingress protection

Carlton®

- PVC Fittings
- Flex Conduit

Emergi-Lite®

- NEMA-4X Certified Emergency Lighting Systems

Homac®

- Flood-Seal® Insulating Covers
- Flood-Seal® Multi-Port Connectors

Iberville®

- Liquidtight Fittings
- EMT Raintight Fittings

Lumacell®

- NEMA-4X Certified Emergency Lighting Systems

Ocal®

- Conduit Bodies with NEMA-4X Cover

PMA®

- Flexible Nylon Conduit Systems

Ready-Lite®

- NEMA-4X Certified Emergency Lighting Systems

Red•Dot®

- Code-Keeper® Weatherproof While-in-Use Covers

Reznor®

- EWHB Wet Environment/Washdown Area Heater

Russellstoll®

- Waterproof Pin and Sleeve Interconnections

Shrink-Kon™

- Self-Fusing Insulation Tape
- Heat-Shrinkable Tubing

T&B® Fittings

- BlueKote® Conduit Bodies
- Cord Connectors
- Liquidtight Fittings
- Stainless Steel Liquidtight Fittings
- Type A Conduit Connectors

Ty-Rap®

- Cable Ties
- Deltec® Outdoor Fastening System

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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 for use in commercial and institutional facilities meet or exceed applicable industry specifications or codes detailed in the appropriate T&B 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.

Paper Logo Here.

Thomas & Betts. Your best connection for innovative solutions.

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

Thomas & Betts