Electrical Solutions for Civil Infrastructure

Thomas&Betts

A Global Leader in Innovative...

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

During the 1950s and 1960s, America spent 3–4% of its national GDP on infrastructure. Today, America spends less than 2.5% of GDP on infrastructure. In order to bring our existing infrastructure up to "good condition," the country needs to spend approximately $2.2 trillion on infrastructure repairs and upgrades.

Source: Washington Post

Challenge and commitment.

Those responsible for maintenance of our nation's infrastructure include government agencies, transportation administration officials, civil engineers and contractors. Among the challenges they face are:

- Reduced budgets
- Lower gasoline taxes dedicated to infrastructure revenue
- Government's commitment to maintaining infrastructure and current funding
- Strict regulatory restrictions on expansions

Transportation systems and public utilities are essential for the economic vitality of our businesses and communities, the conservation of fuel and other natural resources and the comfort and safety of residents and visitors.

On the most basic level, every community requires access to clean water and sanitary waste disposal. At a higher level, mass transit infrastructure is needed to move people and goods from one area to another. At a higher level, mass transit infrastructure is needed to move people and goods from one area to another.

The highway system is a key component to civil defense. If the infrastructure is poorly constructed and maintained, it could lead to a devastating loss of life, property and business.

Today's project management emphasizes the Total Cost Concept, which factors in maintenance, replacement and downtime cost. In a critical transportation environment, the impact of maintenance and downtime costs is even higher.

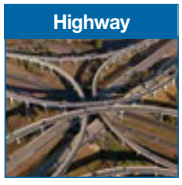
Thomas & Betts realizes the importance of the Total Cost Concept and ensures well-engineered labor-saving products through critical tests at every stage of manufacturing. Our goal is to be the brand of choice for the end user of our products. We are committed to developing more solutions for civil infrastructure, staying current with the latest available technology and remaining competitive.

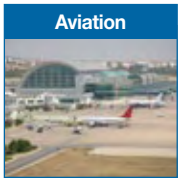
Thomas & Betts provides electrical solutions that help you:

- Keep operations running
- Optimize operation and maintenance costs
- Maintain a safe environment
- Operate within budget

These solutions enable infrastructure professionals to save money, ensure transportation safety and keep America moving.

Civil Infrastructure Applications





Delivering value through system solutions based on engineering innovation.

Our Value Commitment

Thomas & Betts is committed to helping infrastructure professionals meet unique challenges with electrical solutions, services and systems that deliver value. These include:

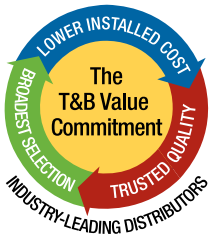
T&B Engineered solutions — There is a strong culture of engineering at Thomas & Betts. Customers trust Thomas & Betts to provide product solutions designed to solve problems associated with their electrical infrastructure applications.

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

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

Training and certification — We conduct training programs on specific products and work closely with all 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

Thomas & Betts has everything to connect and protect civil infrastructure applications. We provide electrical system solutions to help protect the public, employees and assets while increasing safety and sustainability.

Wire and Cable Management — T&B 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 T&B 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 — T&B 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 applications across the globe and explosion-proof conduit systems meeting worldwide standards for hazardous locations.

Power Connection and Control — For reliable connection and intelligent control of electrical power, T&B 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. T&B is a worldwide leader in emergency lighting and supporting central battery systems, lighting for hazardous locations and surge protection. T&B Safety Technology extends the life of your electrical system and protects your employees and assets.

Key civil infrastructure business drivers

- ***Stay within budget and keep systems operating***
- ***Meet increasing environmental and community demands for sustainable designs while maintaining continuous operation***
- ***A constant battle with corrosion***
- ***Meet demanding time schedules without disrupting current operations***
- ***Maintain a safe environment in maintenance areas classified as a hazardous location***

T&B Engineered solutions for every application area

- **Highway — Bridges, tunnels, roadways**
- **Rail — Stations, signals**
- **Aviation — Airport terminals, runways, maintenance garages**
- **Marine — Ports, terminals, ferries**

At Thomas & Betts, we understand the challenges faced in civil infrastructure. We're focused on providing electrical solutions that address the critical issues in every transportation sector, so you can focus on sustainability, cost, quality, flexibility, safety and regulatory compliance. Our family of quality electrical solutions matches specific application criteria, ensuring the continued reliability of infrastructure. And with the industry's most efficient distribution system, we're prepared to meet your ongoing operation and maintenance needs as well as serve new OEM and construction investments.

- Continuous Operation & Sustainability
- Corrosion & Harsh Environment Protection
- Grounding & Bonding
- Liquid Ingress Protection
- Safety & Contamination
- Total Project Cost Reduction
- Hazardous Location Protection
- Power Quality, Efficiency & Reliability
- Extreme Temperature Protection
- Services & Training

Continuous Operation & Sustainability

Highways, rail and marine transportation sectors must contend with vibration and movement. Thomas & Betts offers several solutions to help systems maintain service levels, such as T&B® Fittings for Expansion and Expansion/Deflection, Carlon® PVC Expansion Fittings and Ocal® PVC-Coated Conduits, Fittings and Accessories. These items are used on bridges and roadways to provide movement and flexibility at seams and transition points. In addition, our Kindorf® and Superstrut® brands of framing are used in seismic bracing designs.

Airports require a constant power supply to service radar and communications. Cyberex® UPS systems ensure the continued operation of critical air traffic control. Our Amerace® brand is the world leader in the design and manufacture of isolating transformers, connector kits and cable assemblies for airfield lighting.

Blackburn®

Motor Lead Disconnects

- Quick, reliable change-out of electric motors with no bolting, taping or loose connections
- Complete line of motor lead disconnects for 600V and 5kV applications, covering wire ranges from #16 through 4/0 AWG
- Featuring the Color-Keyed® Compression System that ensures proper connections

elastimold®

Cable Accessories

- A full line of loadbreak and deadbreak separable connectors, cable joints and cable terminations
- Developed for 5 to 35kV distribution systems

CYBEREX®

Industrial UPS Systems

- Developed to UL® standards and designed for a 20-year service life
- Ranges from 10 to 150kVA, incorporating state-of-the-art system topology for higher online system efficiency and longer battery life
- Digital Static Transfer Switch design provides increased redundancy and reliability

T&B® Fittings

Type A Liquidtight Flexible Non-Metallic Conduit with Non-Metallic or Stainless Steel Fittings

- Ideal for continuous flexing or vibration applications
- Create a liquid-, dust- and oil-tight seal
- Suitable for operating temperatures from -20° to 60° C

Russellstoll®

DuraGard® Pin-and-Sleeve Connectors

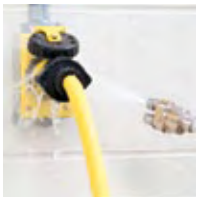
- Not just watertight, but waterproof, mated or unmated
- Tested to 1000 psi for washdown applications
- Full line of 20–60A (600VAC/250VDC max.) connectors, plugs and receptacles in UL94V-0 flammability-rated, corrosion-resistant, non-metallic housings

Blackburn®
Motor Lead Disconnects

Elastimold®
Cable Accessories

Cyberex®
Industrial UPS Systems

T&B® Fittings
Type A Liquidtight Flexible Conduit and Fittings



Russellstoll®
DuraGard® Pin-and-Sleeve Connectors

Continuous operation is the fundamental goal of all civil infrastructure. Thomas & Betts products help make sure that traffic keeps moving, planes and trains run on time and ports provide safe harbor.

Thomas & Betts products for continuous operation & sustainability

Amerace®
- Isolating Transformers, Connector Kits and Cable Assemblies

Blackburn®
- Motor Lead Disconnects

Carlon®
- PVC Fittings, Expansion Fittings, Snap-Loc® Spacers and P&C® Flex Conduit

Current Technology®
- Surge Protection Devices

Cyberex®
- Industrial UPS Systems

Elastimold®
- High-Voltage Separable Connectors and Solid-Dielectric Switchgear

Emergi-Lite®/Lightalarms®
- Emergency Exit Lighting & Central Battery Systems
- Nexus® Real-Time Emergency Lighting Monitoring & Control System

Homac®
- Copper Flood-Seal® Compression Splice Kits, Substation Connectors

Kindorf®
- 316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps
- Seismic Bracing System

Ocal®
- PVC-Coated Conduit, Fittings, OCAL-BLUE® NEMA Type 4X Form 8 Conduit Bodies

PMA®
- Nylon Cable Protection Systems

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

Russellstoll®
- DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System

Sta-Kon®
- Corrosion-Resistant, Nickel-Plated Wire Terminals, High-Temperature Wire Joints and Terminals
- Heat-Shrink Terminals, Ergonomic Comfort Crimp® Tools and Disconnect Installation Tool

Superstrut®
- 316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps
- Seismic Bracing System

T&B® Fittings
- Type A and ATX High-/Low-Temperature Liquidtight Conduit and Fittings
- XTRA FLEX® Non-Metallic Liquidtight Conduit, Tubing and BULLET® Fittings
- Liquidtight Flexible Conduit Fittings — Steel, Stainless Steel, Aluminum and Non-Metallic
- Cord Connectors — Steel, Stainless Steel, Aluminum and Non-Metallic
- Wire-Mesh Strain-Relief Cord and Conduit Grips
- XD Expansion/Deflection Coupling for Rigid Conduit
- LU® Conduit Bodies and Form 8 Conduit Bodies — BlueKote® and Stainless Steel
- STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables

Corrosion & Harsh Environment Protection

Highways, rail and marine transportation sectors all require protection from corrosion and harsh environments. Thomas & Betts offers several solutions to help systems maintain service levels. Note that some parts of the country use PVC conduit while other parts use rigid. The requirements vary by jurisdiction, and regulations usually pertain to dealing with weather demands.

Corrosion is exceptionally severe near coastal waters, and electrical systems are especially challenged. Thomas & Betts offers several solutions to help you in these areas. Parts manufactured from corrosion-resistant materials range from PVC to stainless steel.

T&B® Fittings

Stainless Steel Liquidtight Conduit Connectors

- Type 304 stainless steel body and gland nut resist corrosion far better than other metallic fittings
- Rated for temperatures up to 105° C

CorroStall® Aluminum Conduit Boxes

- Special aluminum alloy provides corrosion resistance as cast
- Available in single- and double-gang sizes

Ocal®

OCAL-BLUE® PVC-Coated Conduit

- PVC-coated, hot-dipped galvanized conduit and threads
- Provides superior corrosion protection against many harmful elements
- Interior blue urethane provides corrosion protection around cables

Ty-Rap®

Stainless Steel Cable Ties

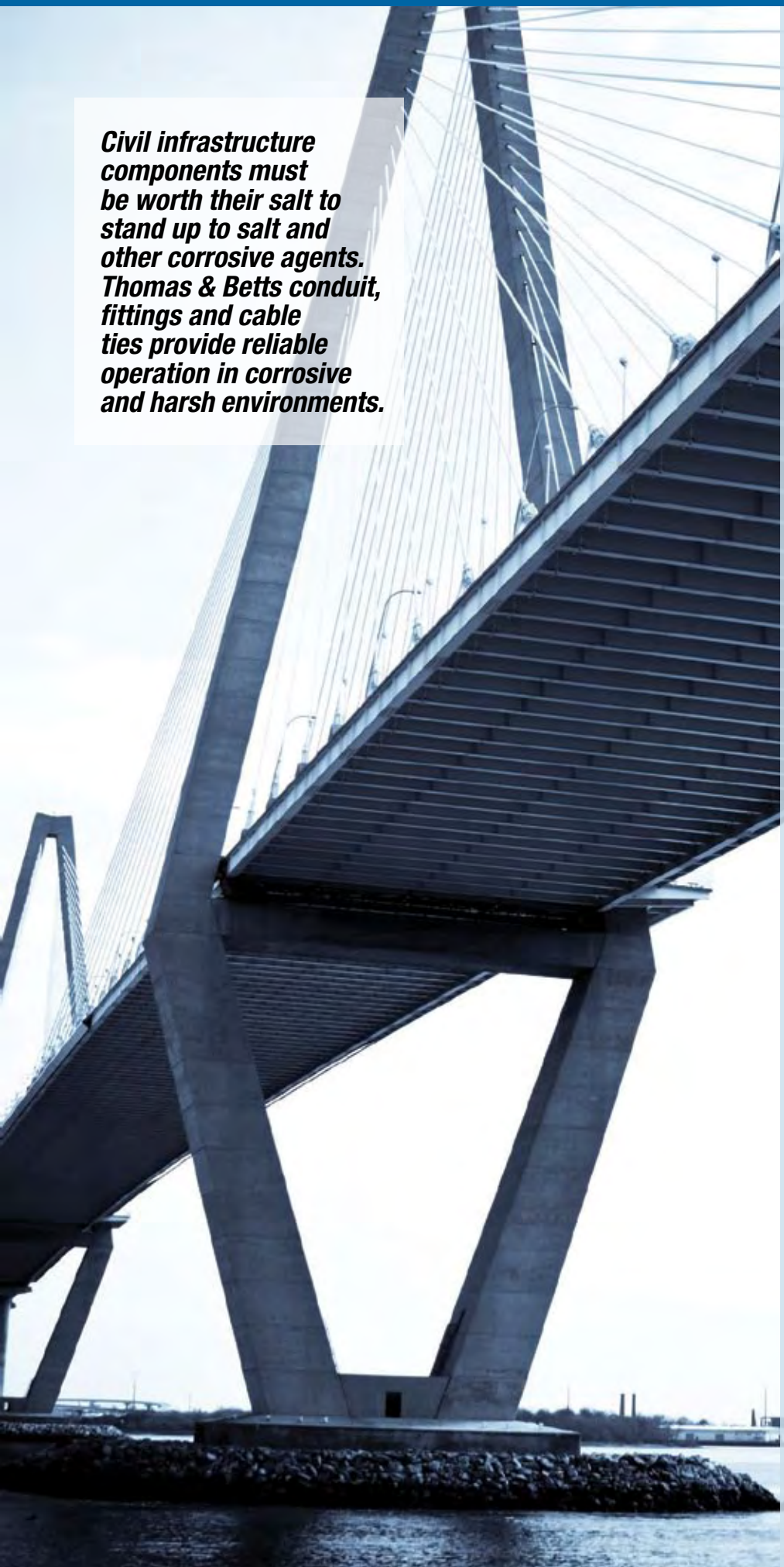
- Strong, fireproof and easy to apply — for safe cable bundling
- Resist corrosion and UV light, with the ability to withstand temperature extremes
- Provide a strong, safe installation with a unique dual-locking mechanism

T&B® Fittings
Stainless Steel Liquidtight
Conduit Connectors

T&B® Fittings
CorroStall®
Aluminum Conduit Boxes

Ocal®
OCAL-BLUE®
PVC-Coated Conduit

Ty-Rap®
Stainless Steel
Cable Ties



Civil infrastructure components must be worth their salt to stand up to salt and other corrosive agents. Thomas & Betts conduit, fittings and cable ties provide reliable operation in corrosive and harsh environments.

Thomas & Betts products for corrosion & harsh environment protection

Adaptaflex®
- Cable Protection Systems — Conduit and Connectors

Amerace®
- Isolating Transformers, Connector Kits and Cable Assemblies

Carlon®
- PVC Fittings, Expansion Fittings, Snap-Loc® Spacers and P&C® Flex Conduit

Homac®
- Copper Flood-Seal® Compression Splice Kits

Kindorf®
- 316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Ocal®
- PVC-Coated Conduit, Fittings, OCAL-BLUE® NEMA Type 4X Form 8 Conduit Bodies

PMA®
- Nylon Cable Protection Systems

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

Reznor®
- Heaters

Sta-Kon®
- Corrosion-Resistant, Nickel-Plated Wire Terminals
- Heat-Shrink Terminals, Ergonomic Comfort Crimp® Tools and Disconnect Installation Tool

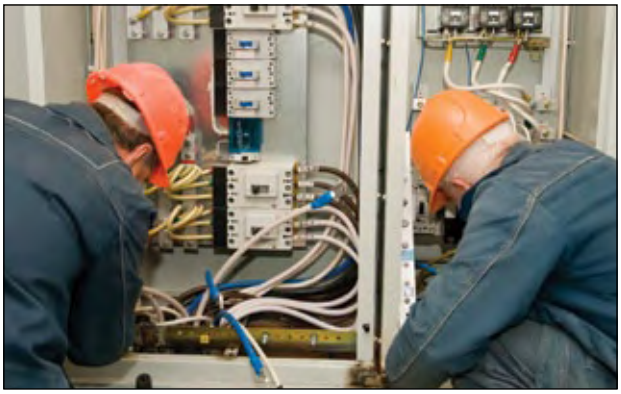
T&B® Fittings
- Type A Liquidtight Flexible Conduit and Fittings
- ATX High-/Low-Temperature Liquidtight Conduit and Fittings
- XTRA FLEX® Non-Metallic Liquidtight Conduit, Tubing and BULLET® Fittings
- Hubs — Stainless Steel and Aluminum
- Liquidtight Flexible Conduit Fittings — Steel, Stainless Steel, Aluminum and Non-Metallic
- Cord Connectors — Steel, Stainless Steel, Aluminum and Non-Metallic
- Silver Grip® Tray Cord Fittings
- Wire-Mesh Strain-Relief Cord and Conduit Grips
- CorroStall® Aluminum Conduit Boxes
- XD Expansion/Deflection Coupling for Rigid Conduit
- LU® Conduit Bodies and Form 8 Conduit Bodies – BlueKote® and Stainless Steel
- STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables

Ty-Rap®
- Coated and Uncoated Stainless Steel Cable Ties
- Extra-High Temperature and Flame-Retardant UL94V-0 Nylon Cable Ties
- Ty-Rap Tote® Cable Tie Dispensers and Ergonomic Installation Tools
- Weather-Resistant Nylon 12 Messenger Hanger Straps
- Deltec® Outdoor Fastening System

Grounding & Bonding

Grounds from a battery, engine, switch-panel negative bus bar, bonding system, auxiliary power generator, underwater ground plate, a ship's 120V safety ground and LORAN signal ground all meet at one point. This point must be a heavy bus bar or bracket with bolted connections.

Thomas & Betts Grounding & Bonding products meet exothermic, compression and mechanical requirements. A ground is a critical part of an electrical system. In some extreme cases, redundant grounds are used to ensure services and operations are not disrupted and that equipment and personnel safety are not put at risk.



Blackburn®

E-Z-Ground® Compression Connectors

- High-conductivity copper and bronze enable connections for direct burial, OEM or telecomm applications
- Featuring the Color-Keyed® Compression System that ensures proper 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
- ViceLock® connectors for cable tray, channel and strut applications

BOREAL

High-Quality Flexible Connectors

- A wide variety of grounding straps and accessories for grounding applications
- Extra-flexible links for heavy-duty applications up to 3600A
- Standard flexible links for medium-duty applications up to 2350A

T&B® Fittings

Grounding Fittings

- Malleable iron construction with tapered hub threads
- Many include Revolver® ground ring
- Straight, 45° angle and 90° angle versions available

Blackburn®
E-Z-Ground®
Compression Connectors

Blackburn®
Mechanical Grounding
Connectors

Boreal™
High-Quality
Flexible Connectors

T&B® Fittings
Grounding Fittings

An electrical system includes various pieces of conductive equipment connected together to keep them at the same potential. Thomas & Betts manufactures a variety of solutions to meet the installation rules of the National Electrical Code®.

NEC® and the National Electric Code® are registered trademarks of the National Fire Protection Association, Inc.

Thomas & Betts products for grounding & bonding

Blackburn®
- E-Z-Ground® Compression Connectors, Mechanical Grounding and Exothermic Grounding Systems
- Compression Lugs and Splices, KUBE® Power Connectors and Motor Lead Disconnects
- Ergonomic Compression Tools

Boreal™
- High-Quality Flexible Connectors

Cyberex®
- Industrial UPS Systems

Elastimold®
- High-Voltage Separable Connectors and Solid-Dielectric Switchgear

EZCODE®
- Danger/Warning Labels and Signs, Industrial Markers, Barricade/Burial Tapes and Wire Markers

Fisher Pierce®
- Faulted Circuit Indicators

Furse®
- Exothermic Welds and Lightning Protection

Homac®
- Copper Flood-Seal® Compression Splice Kits

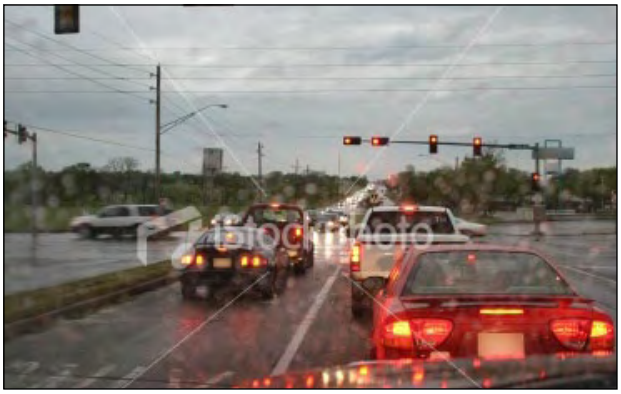
Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Russellstoll®
- DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System

T&B® Fittings
- XD Expansion/Deflection Coupling for Rigid Conduit
- STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables
- Bonding Locknuts
- Bonding & Grounding Wedges
- Blackjack® Grounding Bushing
- Grounding Hub
- XJG Expansion Fitting with Internal Bonding Jumper
- Revolver® Grounding Liquidtight Fitting

Liquid Ingress Protection

The smallest amount of liquid ingress can start the corrosion process and destroy vital connections for civil infrastructure operations, causing outages, delays and closures. Thomas & Betts product solutions are recommended for use in outdoor or indoor locations where applications are exposed to continuous or intermittent moisture.



T&B® Fittings

Stainless Steel Liquidtight Conduit and Cord Fittings

- Stainless steel construction resists corrosion
- Rounded gland nut deflects water from connector
- Continuous sealing ring ensures a liquidtight seal

HOMAC

Flood-Seal® Multi-Port Connectors

- All connectors are 100% Hi-Pot Tested at 4000V for 60 seconds
- Flood-Seal® insulating rockets serve as waterproof spare outlet caps until used
- Dual-rated for copper and aluminum

Russellstoll®

DuraGard® Pin-and-Sleeve Connectors

- Not just watertight, but waterproof, mated or unmated
- Tested to 1000 psi for washdown applications
- Full line of 20–60A (600VAC/250VDC max.) connectors, plugs and receptacles in UL94V-0 flammability-rated, corrosion-resistant, non-metallic housings

red•dot

Code Keeper® Weatherproof Covers

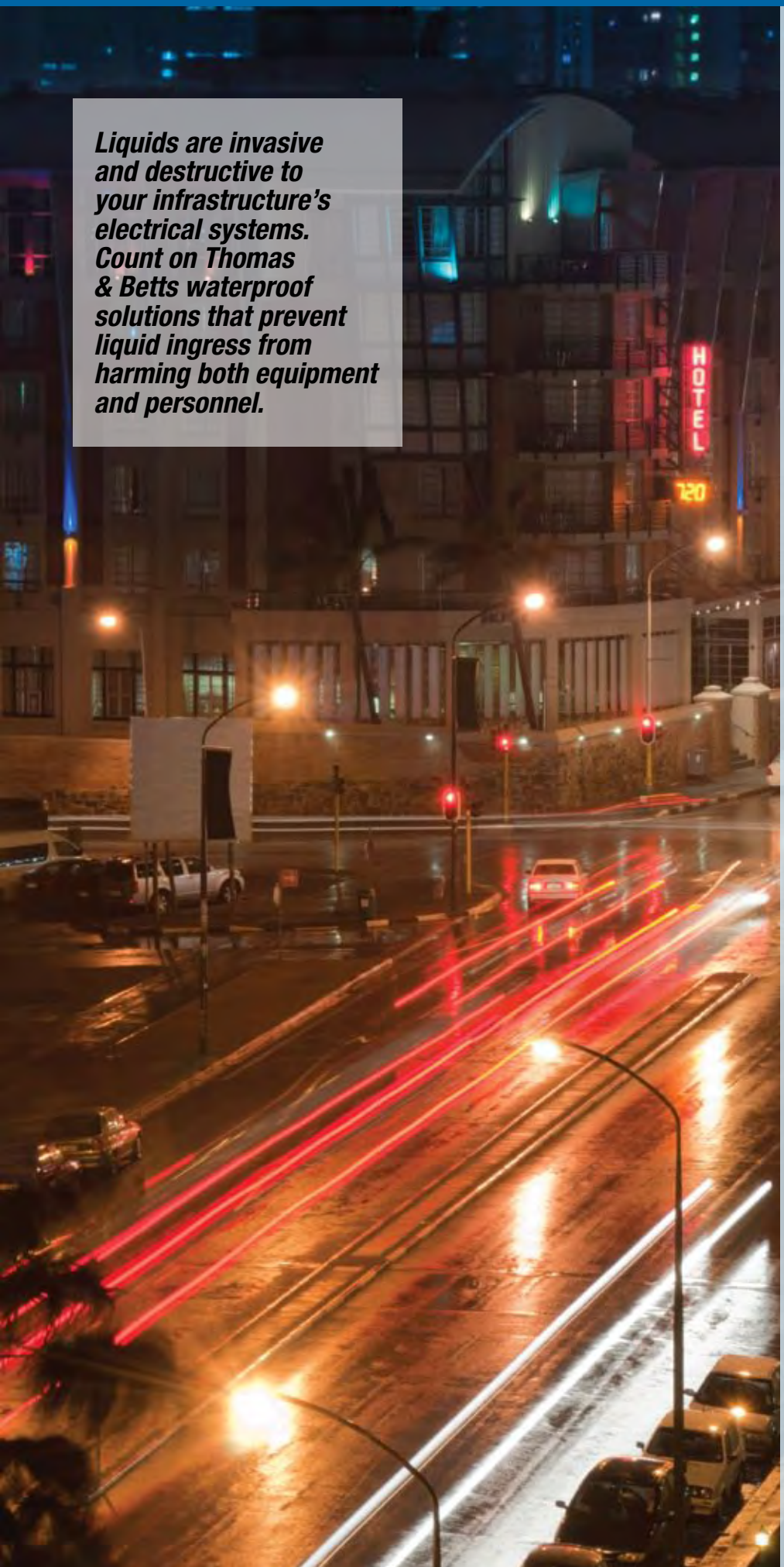
- Rugged aluminum construction resists corrosion
- Cover wet location receptacles to ensure personnel safety

T&B® Fittings
Stainless Steel Liquidtight Conduit and Cord Fittings

Homac®
Flood-Seal® and Squid® Products

Russellstoll®
DuraGard® Pin-and-Sleeve Connectors

Red•Dot®
Code Keeper® Weatherproof Covers



Liquids are invasive and destructive to your infrastructure's electrical systems. Count on Thomas & Betts waterproof solutions that prevent liquid ingress from harming both equipment and personnel.

Thomas & Betts products for liquid ingress protection

Adaptaflex®
- Cable Protection Systems — Conduit and Connectors

Carlon®
- PVC Fittings, Expansion Fittings, Snap-Loc® Spacers and P&C® Flex Conduit

DTS®
- Hazardous Location Lighting, Junction Boxes and Controls

Emergi-Lite®/Lightalarms®
- Emergency Exit Lighting & Central Battery Systems

Hazlux®
- Explosion-Proof Luminaires & Strobe Lights for Hazardous Locations

Homac®
- Copper Flood-Seal® Compression Splice Kits

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Ocal®
- PVC-Coated Conduit, Fittings, OCAL-BLUE® NEMA Type 4X Form 8 Conduit Bodies

PMA®
- Nylon Cable Protection Systems

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

Reznor®
- Heaters

Russellstoll®
- DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System

Sta-Kon®
- Heat-Shrink Terminals, Ergonomic Comfort Crimp® Tools and Disconnect Installation Tool
- Shrink-Kon® Wire and Connector Insulation Products

T&B Fittings®
- Type A Liquidtight Flexible Conduit and Fittings
- ATX High-/Low-Temperature Liquidtight Conduit and Fittings
- XTRA FLEX® Non-Metallic Liquidtight Conduit, Tubing and BULLET® Fittings
- Liquidtight Flexible Conduit Fittings — Steel, Stainless Steel, Aluminum and Non-Metallic
- Cord Connectors — Steel, Stainless Steel, Aluminum and Non-Metallic
- Silver Grip® Tray Cord Fittings
- Wire-Mesh Strain-Relief Cord and Conduit Grips
- CorroStall® Aluminum Conduit Boxes
- STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables

Safety & Contamination

The proper function of signs, lights, switches and signals enables safe operating conditions. Thomas & Betts Safety solutions bring reliability to your project and meet all required codes and standards.

In Railway infrastructure

Thomas & Betts offers many products that provide fault-free operation of signaling and control systems, providing dependability for use with couplings, trucks, and gangways as well as with roof and under-floor equipment. Our products contribute to the safe operation of freight trains, high-speed passenger trains, commuter trains, trams and subways — above or below ground.

In Marine infrastructure

In marine applications, cables and cable bundles are subjected to high stress. Vibration increases the risk of overheating, abrasion damage and electrical short circuits. Cable routing around machinery also requires absolute protection, and it is essential that cables can easily integrate into prefabricated elements like cabins. Many shipping companies rely on the dependability of our products, and Thomas & Betts products protect the assets of large and small shipping vessels as well as ports.

EZCODE®

Safety Labels, Tags, Signs and Barricade Tapes

- Help to ensure personnel and workplace safety, as well as regulatory compliance
- Highly visible and long-lasting materials

Russellstoll®

GSUL Safe Ground Indicator System

- Prevents operation of pumps without a safe ground for static dissipation
- Indicator lights display the establishment of a safe ground

Safety Interlocks

- 30A and 50A ranges and polarizations to 480VAC
- Flame rated and DuraV® housing

Ty-Rap®

Fluoropolymer Cable Ties

- UL® 94V-0 flammability rating
- For use in temperatures ranging from -50° F to 284° F

EZCODE®
Safety Labels, Tags, Signs and Barricade Tapes

Russellstoll®
GSUL Safe Ground Indicator System

Russellstoll®
Safety Interlocks

Ty-Rap®
Fluoropolymer Ties

Electricity has long been recognized as a serious workplace hazard, making safety a critical necessity. Electrical safety can help you prevent shock, arc flash, fires and explosions. And since electricity is used everywhere, electrical safety needs to be everywhere, too — especially on the job site.

Thomas & Betts products for safety & contamination

Adaptaflex®
- Cable Protection Systems — Conduit and Connectors

Amerace®
- Isolating Transformers, Connector Kits and Cable Assemblies

Blackburn®
- E-Z-Ground® Compression Connectors, Mechanical Grounding and Exothermic Grounding Systems
- Compression Lugs and Splices, KUBE® Power Connectors and Motor Lead Disconnects
- Ergonomic Compression Tools

Cyberex®
- Industrial UPS Systems

DTS®
- Hazardous Location Lighting, Junction Boxes and Controls

Emergi-Lite®/Lightalarms®
- Emergency Exit Lighting & Central Battery Systems
- Nexus® Real-Time Emergency Lighting Monitoring & Control System

EZCODE®
- Danger/Warning Labels and Signs, Industrial Markers, Barricade/Burial Tapes and Wire Markers

Fisher Pierce®
- Faulted Circuit Indicators

Furse®
- Exothermic Welds and Lightning Protection

Hazlux®
- Strobe Lights for Hazardous Locations

Homac®
- Copper Flood-Seal® Compression Splice Kits

Joslyn®
- Surge Protection Devices

Joslyn Hi-Voltage®
- Capacitor Switches and Air Disconnect Switches, Obstruction Light-Lowering Device

JT Packard®
- Electrical and Data System Installation, Inspection and Maintenance Services

Kindorf®
- Seismic Bracing System

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Ocal®
- PVC-Coated Conduit, Fittings, OCAL-BLUE® NEMA Type 4X Form 8 Conduit Bodies

PMA®
- Nylon Cable Protection Systems

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

Russellstoll®
- DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System

Sta-Kon®
- Heat-Shrink Terminals and Ergonomic Comfort Crimp® Tools

Ty-Rap®
- Extra-High Temperature and Flame-Retardant UL94V-0 Nylon Cable Ties
- Ty-Rap Tote® Cable Tie Dispensers and Ergonomic Installation Tools
- Deltec® Outdoor Fastening System

Total Project Cost Reduction

In today's challenging economic environment, projects that were recently considered "a go" are now getting a second look and closer scrutiny. Everyone's goal is to improve total project economics and help make marginal projects viable.

At Thomas & Betts, our engineers design products that are simpler to use. For example, the new LU® conduit body has enabled installers to reduce wire pulling time by up to 35%. When using products such as the Kindorf® Trapnut® Fastener and Cobra® Cable and Pipe Clamp, the overall benefit in a project is installed savings.

Kindorf®

Trapnut® Strut Fastener

- Features either a stainless steel, Galv-Krom® or SilverGalv® finish
- Corrosion resistant
- Saves on replacement and labor costs

Cobra® One-Piece Cable and Pipe Clamp

- Installs quickly and securely
- Attaches to equal trade sizes of EMT and rigid conduit
- Greatly reduces installation time

Steel City®

Metallic Boxes, Covers and Accessories

- Custom-designed assemblies of components can save over 50% on your in-wall rough-in installation costs
- Special ARRA and Buy American assemblies reduce overall material costs by up to 40%
- Project-specific packaging, labeling and just-in-time direct deliveries the day needed cut material-handling and inventory costs
- Pre-assembled, palletized components reduce onsite packaging and waste
- Steel City® Prefabricator lets you design, manage, quote and order your own in-wall rough-in electrical systems specific for your project

T&B® Fittings

BlueKote® LU® Universal Conduit Elbow

- Provides a 4-to-1 SKU reduction for conduit body applications
- Reduces installation time and risk of installer strain
- Angled cover port — easier wire pulling and uses standard covers
- BlueKote® four-layer protection provides internal and external corrosion resistance
- Rated for 40% wire fill

Kindorf®
Trapnut® Strut Fastener

Kindorf®
Cobra® One-Piece Cable and Pipe Clamp

Steel City®
Metallic Boxes, Covers and Accessories

T&B® Fittings
BlueKote® LU® Universal Conduit Elbow

Thomas & Betts understands the needs of civil infrastructure, which is why we deliver complete solutions that help reduce costs at every stage of operation and maintenance.

Thomas & Betts products for total project cost reduction

Carlon®
- PVC Fittings, Expansion Fittings, Snap-Loc® Spacers and P&C® Flex Conduit

Kindorf®
- 316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps
- Seismic Bracing System

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

Steel City®
- Metallic Boxes, Covers and Accessories

T&B® Fittings
- LU® Conduit Bodies — BlueKote® and Stainless Steel

Hazardous Location Protection

Civil infrastructure has inherent hazardous locations, such as service garages, airport hangers and fueling docks. The National Electrical Code® (NEC®) defines hazardous locations as areas where the possibility of explosion and fire is created by the presence of flammable gases, vapors, dust, fibers or flyings.

To protect both your facility and your employees, Thomas & Betts has several solutions to use in hazardous locations that meet the electrical codes and standards.

NEC® and the National Electric Code® are registered trademarks of the National Fire Protection Association, Inc.

T&B® Fittings

GUP Explosion-Proof Enclosure

- Compact design is ideal for fuel pumps
- Constructed of ductile iron for superior strength
- Dust-ignition-proof, raintight and listed for wet locations

XP Explosion-Proof Flexible Couplings

- Explosion proof and corrosion resistant for use in hazardous and wet locations
- Ideal for making tight bends in conduit systems or for applications subject to movement or vibration

Russellstoll®

MaxGard® Explosion-Proof Interlocked Receptacles

- Copper-free, cast-aluminum, epoxy-coated housing
- O-ring-sealed interior components ensure watertight protection whether connections are mated or unmated
- Explosion-proof systems for 30A, 60A and 100A

Hazlux®

Hazardous Location Lighting

- Explosion-proof fixtures for Class I, II and III hazardous locations
- Enclosed, gasketed and rated NEMA 4X, IP66 and UL1598 for wet and marine locations

T&B® Fittings
GUP Explosion-Proof Enclosure

T&B® Fittings
XP Explosion-Proof Flexible Couplings

Russellstoll®
MaxGard® Explosion-Proof Interlocked Receptacles

Hazlux®
Hazardous Location Lighting

Gases and vapors always pose a concern in garages, hangers and other areas classified as hazardous locations. Our explosion-proof solutions can prevent or contain an explosion in those locations.

Thomas & Betts products for hazardous location protection

All-Struct®
- Quick Pole Light-Fixture Mounting Assembly

Cyberex®
- Industrial UPS Systems

DTS®
- Hazardous Location Lighting, Junction Boxes and Controls

Emergi-Lite®/Lightalarms®
- Emergency Exit Lighting & Central Battery Systems

EZCODE®
- Danger/Warning Labels and Signs, Industrial Markers, Barricade/Burial Tapes and Wire Markers

Hazlux®
- Explosion-Proof Luminaires & Strobe Lights for Hazardous Locations

Joslyn®
- Surge Protection Devices

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Reznor®
- Heaters

Russellstoll®
- DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System

T&B® Fittings
- Explosion-Proof Boxes, Elbows, Fittings and XP Explosion-Proof Flexible Couplings
- STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables

Power Quality, Efficiency & Reliability

Power quality and reliability issues are keys to the successful delivery of energy. Power blackouts and brownouts can have serious economic consequences. Poor power quality, for example, affects computers and other sensitive equipment. What's more, keeping security systems operational is also essential with the escalating threat of terrorism.

When the reliable connection and intelligent control of electrical power are necessities, our wide product selection maintains and improves power quality, efficiency and reliability. From 120V to 230kV, our solutions are specified worldwide in the industrial, construction and utility markets.

CYBEREX

Industrial UPS Systems

- Developed to UL® standards and designed for a 20-year service life
- Ranges from 10 to 150kVA, incorporating state-of-the-art system topology for higher online system efficiency and longer battery life
- Digital Static Transfer Switch design provides increased redundancy and reliability

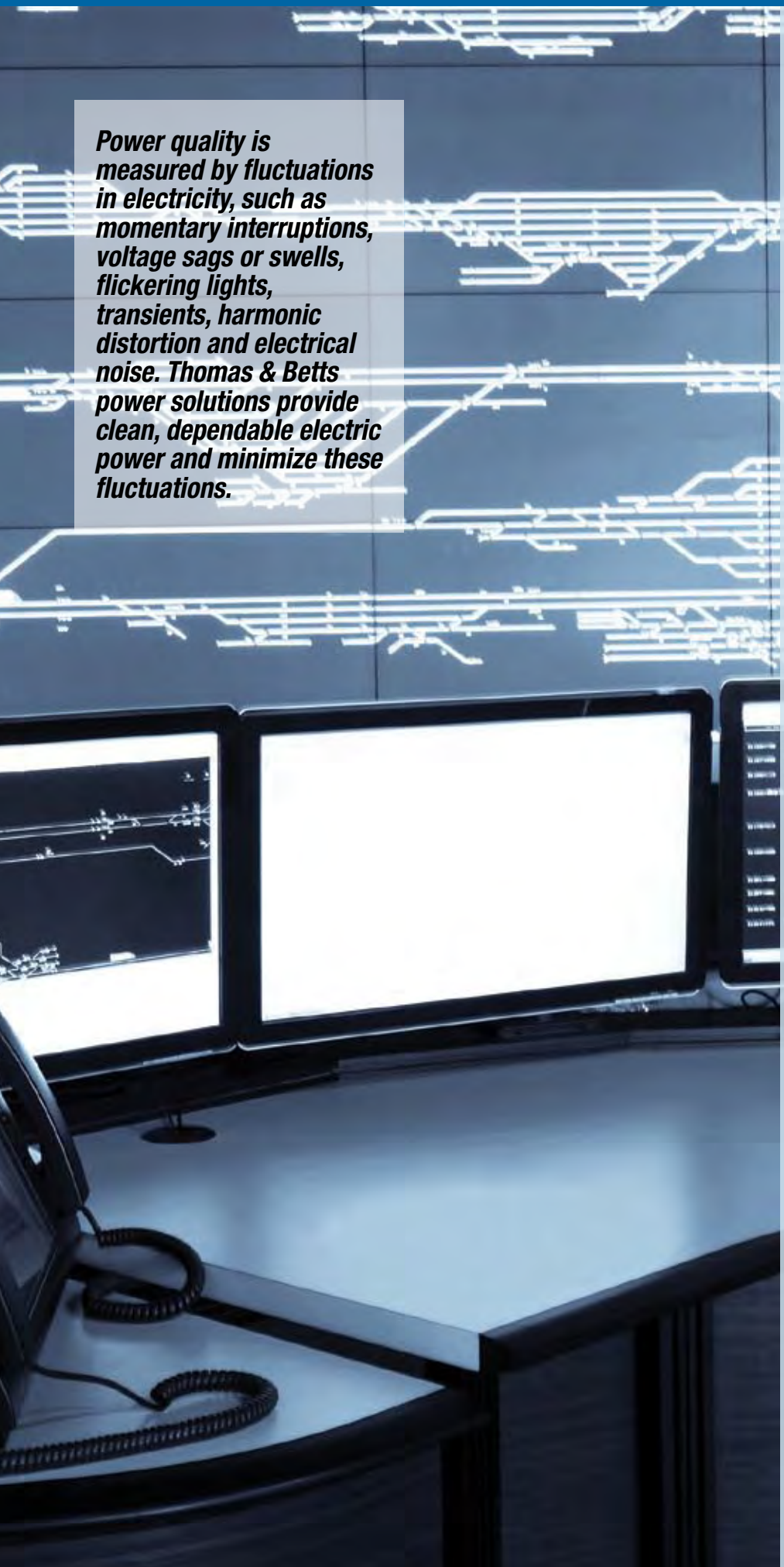
JOSLYN HI-VOLTAGE

VerSaVac™ Vacuum Switch

- Completely sealed, long-life vacuum switch
- Operational life of 50,000 open/close maintenance-free operations
- Replace maintenance-intensive oil switches
- Maximizes bank uptime and improves power quality

Cyberex®
Industrial UPS Systems

Joslyn Hi-Voltage®
VerSaVac™ Vacuum Switch



Power quality is measured by fluctuations in electricity, such as momentary interruptions, voltage sags or swells, flickering lights, transients, harmonic distortion and electrical noise. Thomas & Betts power solutions provide clean, dependable electric power and minimize these fluctuations.

Thomas & Betts products for power quality, efficiency & reliability

Current Technology®
- Surge Protection Devices

Cyberex®
- Industrial UPS Systems

Elastimold®
- High-Voltage Separable Connectors and Solid-Dielectric Switchgear

Fisher Pierce®
- Faulted Circuit Indicators

Homac®
- Copper Flood-Seal® Compression Splice Kits, Substation Connectors

Joslyn®
- Surge Protection Devices

Joslyn Hi-Voltage®
- Capacitor Switches and Air Disconnect Switches

JT Packard®
- Electrical and Data System Installation, Inspection and Maintenance Services

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

Extreme Temperature Protection

Thomas & Betts is a reliable and experienced partner when it comes to protecting your cables and connections in the harshest temperatures. Our solutions ensure that connections remain properly shielded against extreme temperatures and provide uninterrupted transmission of power and data. We provide tried and tested products for a wide variety of applications.

Ty-Rap®

Extra-High Temperature Nylon Cable Ties

- For use in temperatures from -40° to 150° C
- Feature "The Grip of Steel®" stainless steel locking device and offer infinite adjustability

Heavy-Duty Stainless Steel Cable Ties

- For use in temperatures from -80° to 538° C
- Available in both Type 304 and Type 316 stainless steel
- Quick, easy installation and secure locking

Sta-Kon®

High-Temperature Wire Joints and Terminals

- Rated for temperatures up to 150° C, 600V maximum
- Molded, one-piece nylon construction for electrical insulation, rated UL94V-2

T&B® Fittings

ATX Liquidtight Flexible Metal Conduit

- Supports operating temperatures from -60° to 150° C (up to 165° C intermittent)
- Flammability rating of UL94-HB
- Standard flexible metallic core with temperature-resistant elastomeric outer jacket

PMA®

High-Temperature Nylon Conduit and Fittings

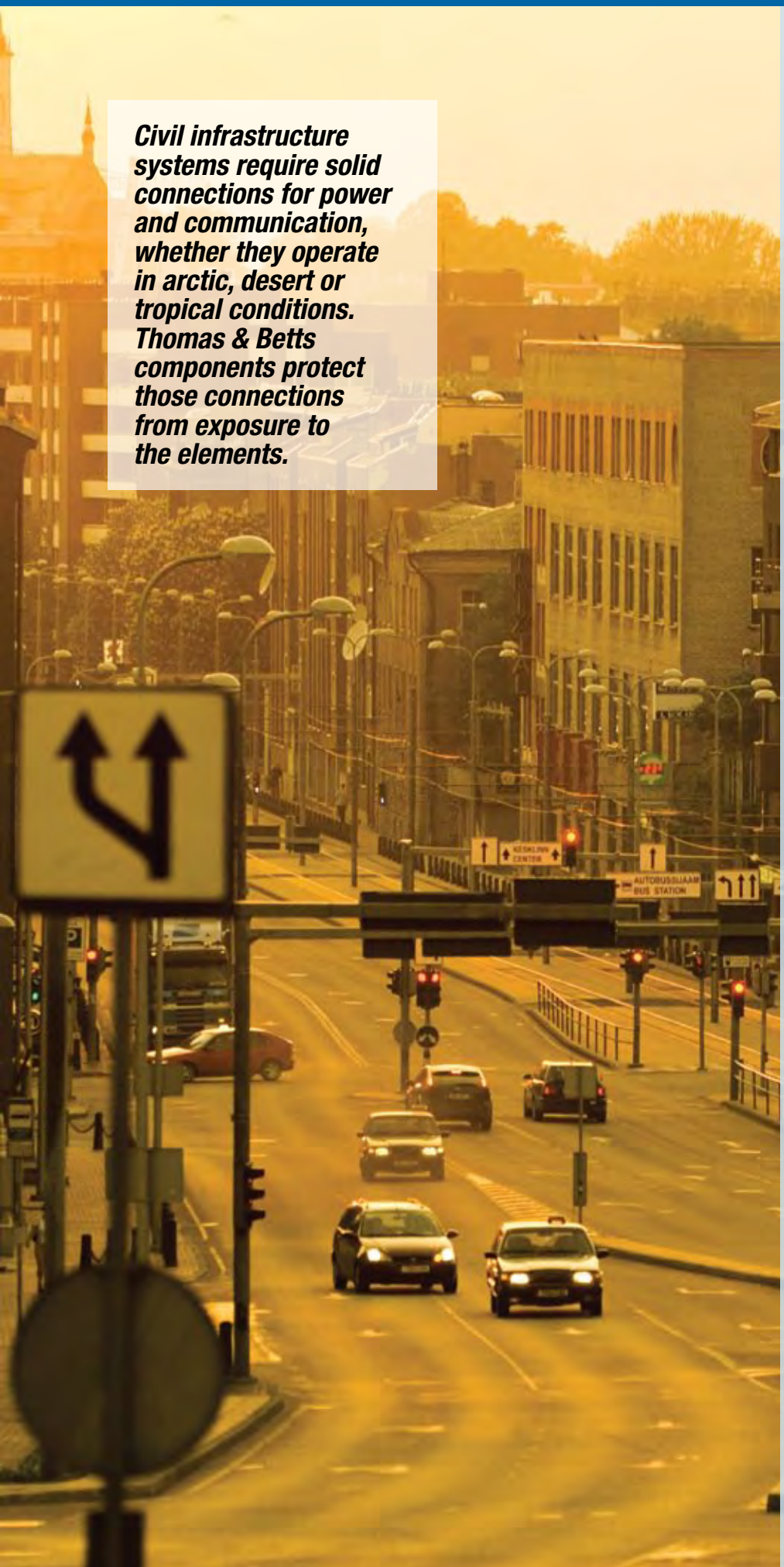
- Comply with the highest international fire safety regulations regarding flammability, smoke and toxicity
- Excellent mechanical impact strength even at low temperatures

Ty-Rap®
Extra-High Temperature and Stainless Steel Ties

Sta-Kon®
High-Temperature Wire Joints and Terminals

T&B® Fittings
ATX Liquidtight Flexible Metal Conduit

PMA®
High-Temperature Nylon Conduit and Fittings



Civil infrastructure systems require solid connections for power and communication, whether they operate in arctic, desert or tropical conditions. Thomas & Betts components protect those connections from exposure to the elements.

Thomas & Betts products for extreme temperature protection

Adaptaflex®
- Cable Protection Systems — Conduit and Connectors

EZCODE®
- Danger/Warning Labels and Signs, Industrial Markers, Barricade/Burial Tapes and Wire Markers

Kopex-Ex™
- Explosion-Proof Raceway and Conduit Systems

PMA®
- Nylon Cable Protection Systems

Reznor®
- Heaters

Sta-Kon®
- High-Temperature Wire Joints and Terminals

T&B Fittings®
- ATX High-/Low-Temperature Liquidtight Conduit and Fittings

Ty-Rap®
- Coated and Uncoated Stainless Steel Cable Ties
- Extra-High Temperature and Flame-Retardant UL94V-0 Nylon Cable Ties
- Ty-Rap Tote® Cable Tie Dispensers and Ergonomic Installation Tools

Services & Training

In the highly specialized field of electrical equipment design, installation and inspection, Thomas & Betts plays a key role in helping customers understand the nuances of their equipment.

Blackburn®

- The QTP program provides a guaranteed two-week shipment of Blackburn® products
- Configurator enables special connectors to be designed with a guaranteed two-week shipment
- Product specification specialists and the Mobile Solutions team are available nationwide to train in the proper use and installation of Blackburn® products
- Inside Tech Support group provides 24/7/365 expertise for Blackburn® products
- Full tool service as well as loaner and tool leasing programs

CYBEREX®

- UPS and battery maintenance
- Battery replacement services
- Power quality and generator services
- Installation and commissioning assistance

JOSLYN HI-VOLTAGE® elastimold®

- Power & High Voltage Field Service group provides field maintenance for Joslyn Hi-Voltage® and Elastimold® equipment

JT PACKARD®

- Thermographic scanning
- Power quality survey
- Site coordination
- Pre-installation consultation
- Commission support
- Battery analysis and refresh
- BCM retrofit services
- Load bank test
- Breaker coordination studies
- Arc flash studies
- Multi-vendor UPS services
- Multi-vendor emergency lighting service
- Multi-vendor HVAC/CRAC service

Ocal®

- Onsite installation training provides a review and hands-on practice of clamping, cutting, threading, assembling and repairing the Ocal® PVC-coated conduit system
- Training also extends warranty from two to five years on a system installed by a certified contractor

Cyberex®
Industrial UPS Systems

Joslyn Hi-Voltage®/Elastimold®
Field Services Group

Ocal®
Ocal Installation
Certification Training

Thomas & Betts provides training for many of our products. We make sure that our clients understand how our versatile solutions will work with their electrical systems.

Thomas & Betts services & training

Thomas & Betts services

Blackburn®
- E-Z-Ground® Compression, Mechanical and Exothermic Grounding Systems
- Compression Lugs and Splices, KUBE® Power Connectors and Motor Lead Disconnects
- Ergonomic Compression Tools

Cyberex®
- Industrial UPS Systems

Joslyn Hi-Voltage®
- Capacitor Switches and Air Disconnect Switches, Obstruction Light-Lowering Device

JT Packard®
- Electrical and Data System Installation, Inspection and Maintenance Services

Thomas & Betts training

Blackburn®
- E-Z-Ground® Compression, Mechanical and Exothermic Grounding Systems
- Compression Lugs and Splices, KUBE® Power Connectors and Motor Lead Disconnects
- Ergonomic Compression Tools

Elastimold®
- High-Voltage Separable Connectors and Solid-Dielectric Switchgear

Furse®
- Exothermic Welds and Lightning Protection

Ocal®
- Ocal Installation Certification Training

Ty-Rap®
- Ty-Rap Tote® Cable Tie Dispensers and Ergonomic Installation Tools

Additional Thomas & Betts services & training

- On-Site NEC® Update Training
- On-Site Grounding & Bonding Training
- Free Online CAD Library for Downloadable 2D and 3D Models

NEC® and the National Electric Code® are registered trademarks of the National Fire Protection Association, Inc.

T&B Engineered system solutions for civil infrastructure applications

When it comes to corrosion-resistant materials to support, connect and protect civil infrastructure, Thomas & Betts has you covered with a complete solution, whether you prefer aluminum, PVC-coated, non-metallic or stainless steel.

Aluminum Solutions

Aluminum provides the advantages of high strength-to-weight ratio, superior resistance to certain corrosive environments and ease of installation. Aluminum typically weighs about 50% less than steel and requires no maintenance after installation.

- Conduit, cable and cord fittings
- Cable tray
- Framing channels, hardware and accessories
- Vaportight lighting

T&B® Fittings T&B® Cable Tray Kindorf® red•dot®

Non-Metallic Solutions

The T&B® Fittings brand includes non-metallic cord and cable connectors, while the Carlon® brand from Thomas & Betts encompasses one of the most comprehensive lines of PVC conduit and fittings available in the industry.

- Expansion fittings
- Cord and cable connectors
- Conduit outlet bodies and Schedule 40 and 80 elbows
- Couplings, adapters and accessories

T&B® Fittings Carlon®

PVC-Coated Solutions

The comprehensive line of Ocal® products provides a systems solution for superior corrosion-resistant protection and ease of wiring in conduit applications. All Ocal® products meet or exceed applicable industry ratings or specifications. Look for the distinctive T&B blue color.

- OCAL-BLUE® Conduit, Couplings and Conduit Bodies
- OCAL-BLUE® FS/FD Device Boxes and Covers
- Ocal® Liquidtight Fittings
- Ocal® Large-Radius Elbows
- Ocal® XJG Expansion Couplings

Ocal®

Stainless Steel Solutions

For corrosion resistance combined with strength, durability and ease of installation, stainless steel offers performance that's hard to match. Thomas & Betts' complete line of stainless steel products is designed to safeguard your electrical system against corrosion to avoid costly downtime and repairs.

- Cable tray and cable ties
- Framing channels, hardware and accessories
- Conduit, cable and cord fittings

T&B® Fittings T&B® Cable Tray Kindorf® Ty-Rap®

Wire and Cable Management Systems

Through its Ty-Rap® brand, Thomas & Betts offers a complete high-performance wire and cable management system that can handle highly corrosive and extreme temperature conditions.

- Extra-high temperature nylon cable ties
- Weather-Resistant Nylon 12 Messenger Hanger Straps
- Ergonomic installation tools and Ty-Rap Tote® dispensers

Ty-Rap®

Grounding Systems

Thomas & Betts Blackburn® grounding connectors take a systems approach to reliable grounding — from the grounding grid to power equipment and machinery to instrumentation, providing dependable protection throughout the facility. Optional terminating methods accommodate varying application preferences or specifications. The Blackburn® product line includes:

- E-Z-Ground® Compression Connectors
- Mechanical Connectors
- Exothermic Connectors

Blackburn®

High-quality products to address key issues in

Thomas & Betts Brands	Products	Continuous Operation & Sustainability	Corrosion & Harsh Environ-ment Protection
Adaptaflex®	Cable Protection Systems — Conduit and Connectors		•
All-Struct®	Quick Pole Light-Fixture Mounting Assembly		
Amerace®	Isolating Transformers, Connector Kits and Cable Assemblies	•	•
Blackburn®	E-Z-Ground® Compression Connectors, Mechanical Grounding and Exothermic Grounding Systems		
	Compression Lugs and Splices, KUBE® Power Connectors and Motor Lead Disconnects	•	
	Ergonomic Compression Tools		
Boreal™	High-Quality Flexible Connectors		
Carlon®	PVC Fittings, Expansion Fittings, Snap-Loc® Spacers and P&C® Flex Conduit	•	•
Current Technology®	Surge Protection Devices	•	
Cyberex®	Industrial UPS Systems	•	
DTS®	Hazardous Location Lighting, Junction Boxes and Controls		
Elastimold®	High-Voltage Separable Connectors and Solid-Dielectric Switchgear	•	
Emergi-Lite®/ Lightalarms®	Emergency Exit Lighting & Central Battery Systems	•	
	Nexus® Real-Time Emergency Lighting Monitoring & Control System	•	
EZCODE®	Danger/Warning Labels and Signs, Industrial Markers, Barricade/Burial Tapes and Wire Markers		
Fisher Pierce®	Faulted Circuit Indicators		
Furse®	Exothermic Welds and Lightning Protection		
Hazlux®	Explosion-Proof Luminaires & Strobe Lights for Hazardous Locations		
Homac®	Copper Flood-Seal® Compression Splice Kits, Substation Connectors	•	•
Joslyn®	Surge Protection Devices		
Joslyn Hi-Voltage®	Capacitor Switches and Air Disconnect Switches, Obstruction Light-Lowering Device		
JT Packard®	Electrical and Data System Installation, Inspection and Maintenance Services		
Kindorf®	316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps	•	•
	Seismic Bracing System	•	
Kopex-Ex™	Explosion-Proof Raceway and Conduit Systems		•
Ocal®	PVC-Coated Conduit, Fittings, OCAL-BLUE® NEMA Type 4X Form 8 Conduit Bodies	•	•
	Ocal Installation Certification Training		
PMA®	Nylon Cable Protection Systems	•	•
Red•Dot®	Code Keeper® Weatherproof While-in-Use Covers	•	•
Reznor®	Heaters		•
Russellstoll®	DuraGard® and MaxGard® Connectors, Explosion-Proof Receptacles and GSUL Ground Indicator System	•	
Sta-Kon®	Nylon-, Vinyl- and Non-Insulated Wire Terminals, Luminaire Disconnects		
	Corrosion-Resistant, Nickel-Plated Wire Terminals, High-Temperature Wire Joints and Terminals	•	•
	Heat-Shrink Terminals, Ergonomic Comfort Crimp® Tools and Disconnect Installation Tool	•	•
	Shrink-Kon® Wire and Connector Insulation Products		
Steel City®	Metallic Boxes, Covers and Accessories		
Superstrut®	316 Stainless, Aluminum, PVC-Coated or Non-Metallic Channel, Hangers and Clamps	•	
	Seismic Bracing System	•	
T&B® Fittings	Type A and ATX High-/Low-Temperature Liquidtight Conduit and Fittings	•	•
	XTRA FLEX® Non-Metallic Liquidtight Conduit, Tubing and BULLET® Fittings	•	•
	Hubs — Stainless Steel and Aluminum		•
	Liquidtight Flexible Conduit Fittings — Steel, Stainless Steel, Aluminum and Non-Metallic	•	•
	Cord Connectors — Steel, Stainless Steel, Aluminum and Non-Metallic	•	•
	Explosion-Proof Boxes, Elbows, Fittings and XP Explosion-Proof Flexible Couplings		
	Silver Grip® Tray Cord Fittings		•
	Wire-Mesh Strain-Relief Cord and Conduit Grips	•	•
	CorroStall® Aluminum Conduit Boxes		•
	XD Expansion/Deflection Coupling for Rigid Conduit	•	•
	LU® Conduit Bodies and Form 8 Conduit Bodies — BlueKote® and Stainless Steel	•	•
	STAR TECK® and STAR TECK XP® Fittings for Jacketed Metal-Clad and Teck Cables	•	•
	Grounding Fittings		
Ty-Rap®	Coated and Uncoated Stainless Steel Cable Ties		•
	Extra-High Temperature and Flame-Retardant UL94V-0 Nylon Cable Ties		•
	Ty-Rap Tote® Cable Tie Dispensers and Ergonomic Installation Tools		•
	Weather-Resistant Nylon 12 Messenger Hanger Straps and Deltec® Outdoor Fastening System		•

civil infrastructure

Grounding & Bonding	Liquid Ingress Protection	Safety & Contami-nation	Total Project Cost Reduction	Hazardous Location Protection	Power Quality, Efficiency & Reliability	Extreme Temperature Protection	Services & Training
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Thomas & Betts Specification Guide

Thomas & Betts product guide specifications are available as Microsoft Word documents at **www.tnb.com**. They follow the CSI three-part format, using section numbers from Master Format® 2010 Update. This enables their simple and seamless incorporation into any CSI compliant electrical specification. Following are products referenced in this brochure:

26 05 29.11 Modular Metal Framing System – Kindorf®
26 05 33.14 Corrosion-Resistant Conduit Systems
26 05 33.18 Weatherproof Boxes and Covers
26 05 33.22 Explosion-Proof Conduit Outlet Boxes
26 05 33.24 Liquidtight Conduit Fittings
26 05 33.32 Jacketed Metal-Clad Cable Fittings
26 05 33.54 Industrial-Grade Conduit Bodies
26 05 33.55 Industrial-Grade Rigid Fittings
26 05 33.56 Explosion-Proof Conduit Outlet Bodies and Fittings
26 05 83.11 Wiring Connections: Solderless Crimp Terminals
26 05 84 Wire and Cable Fastening
26 54 00 Classified-Location Lighting

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Thomas&Betts

Visit the T&B world of electrical product solutions

Visit our web site for more information about Thomas & Betts solutions and our newest products. For a user-friendly catalog and competitive part number search, application and technical support and other useful information, go to: **www.tnb.com**

Industry codes and specifications

All Thomas & Betts products for use in civil infrastructure 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**

American Recovery and Reinvestment Act (ARRA)

Get certification letters for compliant products online at:

www.tnb.com/ARRA

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