

APPLICATION BROCHURE

# Installation Products

## Safety and contamination



### Installation Products Division

- Wire and cable management
- Cable protection systems
- Boxes and fittings
- Connectivity and grounding
- Medium voltage

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**Thomas & Betts is now part of ABB's Installation Products Division, but our long legacy of quality products and innovation remains the same. From connectors that support wire buildings on Earth to cable ties that help put machines in space, we continue to work every day to make, market, design and sell products that provide a smarter, safer and more reliable flow of electricity, from source to socket.**

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



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# No one is immune from safety and contamination concerns

Safety & contamination 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 and the possibility of contamination to the product being produced or the environment have paramount importance.

Reflecting the critical nature of these areas, local, state and federal agencies are continually monitoring operations and enforcing regulations designed to reduce the chance for injury and contamination. 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 & contamination concerns.

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## ABB Products can help ensure a safe and clean 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, ABB 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.

ABB 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 extensive range of fittings, conduit bodies, cable ties and modular framing systems made from stainless-steel to resist contamination from bacterial growth, ABB has the solutions you're looking for.



# Designed to perform

## Installation Products business line

Thomas & Betts is now ABB Installation Products business line, but our long legacy of quality products and innovation remains the same. From connectors that help wire buildings on Earth to cable ties that help put machines in space, we continue to work every day to make, market, design and sell products that provide a smarter, safer and more reliable flow of electricity, from source to socket.

### Wire and cable management

- Industry's broadest range of innovative solutions for bundling, securing and routing wire and cable
- Designed to perform in the most demanding conditions
- Overview in fastening, bundling and managing wires
- For electrical installers, panel builders, OEM professionals and many more

### Connectivity and grounding

- Covering IEC/EN, NFC, UL and NFPA projects
- Reliable and high quality manufactured components
- Low installed costs through intelligent design
- Design services support and technical advice
- Protecting people, assets and electrical equipment

### Boxes and fittings

- Highest quality, most versatile, innovative range of boxes, fittings and enclosures
- Comprehensive line of boxes – metallic/non-metallic, indoor/outdoor, weatherproof and floor
- Fast and flexible enclosure solutions
- Specified in the industrial, construction and utility markets

### Cable protection systems

- Unsurpassed protection for wire and cables in the most demanding applications
- Customized specific solutions – through innovation & material science expertise
- Conform all international certifications – such as IRIS and end user approvals
- Comprehensive support service – worldwide close to the customer
- Over 12.000 high performance products – for outdoor & indoor, static & dynamic

### Medium voltage

- Intelligent control and reliable connection of electrical power
- Reducing maintenance, repair and operational costs in the field – overhead or underground
- Cable accessories, apparatus, distribution and substation connectors
- Specified Industrial, construction and utility markets

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



## Safety and contamination solutions

### T&B® Fittings

#### T&B® Fittings Type 316 stainless steel Form 8 conduit bodies

- Marine-grade Type 316 stainless steel construction in rugged Form 8 design for the harshest environments
- Available in shapes LB, T, TB and the versatile new LU® Universal Conduit Elbow
- Ship complete with covers, gaskets and screws
- Hub sizes from ½" to 2"
- UL® Listed and CSA Certified



T shape



LU® shape



TB shape

#### T&B® Fittings Stainless steel conduit fittings

- Type 304 stainless steel fittings in straight, 45° and 90° versions for liquidtight flexible metal conduit
- Type 316 stainless steel fittings for Type A liquidtight flexible non-metallic conduit
- Type 316 stainless steel Bullet® hub connectors for rigid or intermediate metal conduit



#### T&B® Fittings Stainless steel cord fittings

- Type 304 stainless steel Ranger® liquidtight fittings for flexible cord and cable
- Type 316 stainless steel STAR TECK® fittings for jacketed metal-clad and teck cables
- Type 316 stainless steel Silver Grip® fittings for tray cable and portable cord in hazardous locations



### PMA

#### PMA Flexible nylon conduit systems



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

### KOPEX-Ex

#### Kopex-Ex Stainless steel flexible conduit



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

### Adaptaflex

#### Adaptaflex Stainless steel flexible conduit systems



- High flexibility and high fatigue life
- Operating temperatures up to 660° F in static applications and 480° F in moving applications
- Also available in stainless steel overbraid style for EMI screening and in versions designed for use in hazardous locations

**Safety and contamination solutions**

**T&B Cable Tray**



**T&B® Cable tray**

**Type 316 stainless steel cable tray**

- Ladder, ventilated & solid trough designs
- Full range of classes and associated loading capacities
- Complete selection of fittings & covers

**Ty-Rap®**

**Stainless steel cable ties**



- Uncoated Type 302/304 and Type 316 stainless steel
- Also available in polyester-coated Type 316 stainless steel
- Secure, heavy-duty ball locking mechanism

**Ty-Rap® High-performance cable ties & accessories**

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



**Ty-Fast®**

**Ty-Fast® Ag+® Bacteria-resistant cable ties**

- The industry's first cable tie that inhibits microbial growth: Helps reduce surface bacteria 99.9 percent
- Protects itself against bacteria, mold and fungus



**Wall offset spacer**

- The industry's first wall offset spacers that inhibit bacterial growth on the spacer surface: 99.9% effective for bacterial reduction on the spacer surface



**Superstrut®**

**Channel and accessories**

- 1½" stainless steel mechanical framing supports and accessories resist contamination from bacterial growth covers

**Kindorf®**

**Kindorf® Stainless steel modular framing channel and accessories**

- Available in both Type 304 and Type 316 stainless steel
- 1½" x 1½" channel dimension reduces installation costs and waste
- Innovative Trapnut® Strut Fastener reduces time by up to 43% on retrofit applications
- 1½" stainless steel mechanical framing supports and accessories resist contamination from bacterial growth
- Full line of fittings and accessories



## Safety and contamination solutions



### 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



### 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



### HI-TECH® Current-Limiting fuses

- Reduced arc flash energy
- Protect against transformer tank rupture
- Oil submersible options
- Highest current ratings in a single fuse body available in the industry today



## Safety and contamination solutions



### Russellstoll®

#### 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

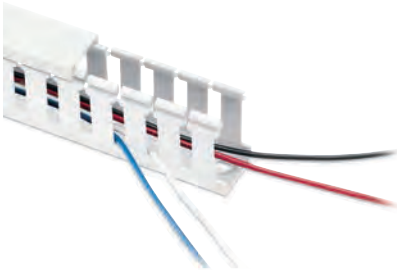


### Blackburn®

#### Blackburn®

##### TBM6SE mechanical crimp tool

- Crimper with interchangeable dies for #8 AWG to 500 kcmil non-insulated lug sizes
- Ergonomic soft grips with Crimp-Assist® foot for added stability when crimping larger size connectors



### Ty-Duct®

#### 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

## ABB

### Service and training

- **ABB offers onsite:**
  - NEC® Update Training
  - Grounding & Bonding Training
  - Ocal® Certification Training
- ABB provides a wide variety of service and training programs to ensure that your electrical system is installed and maintained in the safest and most appropriate way
- For many of our product lines, we offer Field Application Engineers who are available for field training on a variety of topics
- Tech Support staff are available for many of our product lines, as is onsite installation training and certification




# Installation Products for applications

- 01 Continuous operation and sustainability.
- 02 Corrosion and harsh environment protection.
- 03 Safety and contamination.
- 04 Emergency electrical solutions.
- 05 Total project cost reduction.
- 06 Liquid ingress protection.
- 07 Extreme temperature protection.
- 08 Grounding and bonding.
- 09 SKU Reduction.

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Continuous operation and sustainability




① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
• Buses and fittings  
• Connectivity and grounding  
• Medium voltage

01

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Corrosion and harsh environment protection



① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
• Buses and fittings  
• Connectivity and grounding  
• Medium voltage

02

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Safety and contamination



① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
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• Medium voltage

03

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Emergency electrical solutions



① Installation Products Division  
• Easy-clearing cables and cables protection for switch-down areas  
• Supporting and diverting power to temporary structures  
• Cable bundling/strapping and identification components  
• Temporary power systems

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APPLICATION BROCHURE  
**Installation Products**  
Total project cost reduction



① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
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• Medium voltage

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**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Liquid ingress protection




① Installation Products Division  
• Wire and cable management  
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• Medium voltage

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APPLICATION BROCHURE  
**Installation Products**  
Extreme temperature protection



① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
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• Connectivity and grounding  
• Medium voltage

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**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Grounding and bonding




① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
• Buses and fittings  
• Connectivity and grounding  
• Medium voltage

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**ABB**

APPLICATION BROCHURE  
**Installation Products**  
SKU Reduction



① Installation Products Division  
• Wire and cable management  
• Cable protection systems  
• Buses and fittings  
• Connectivity and grounding  
• Medium voltage

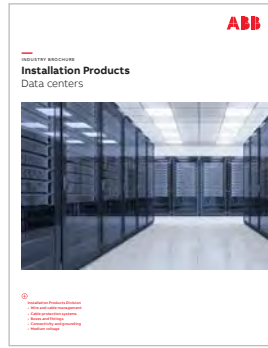
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# Installation Products for industries

- 01 Commercial and institutional buildings.
- 02 Data centers.
- 03 Food and beverage industry.
- 04 Food and beverage industry - plant assessment.
- 05 Utility industry.
- 06 Power generation industry.
- 07 Chemical industry.
- 08 Oil and gas industry.
- 09 Wind power industry.
- 10 Renewable energy industry.
- 11 Water and wastewater treatment industry.
- 12 Single and multi-family housing industry.
- 13 Rail industry.
- 14 Civil infrastructure industry.
- 15 Metals and mining industry.



01



02



03



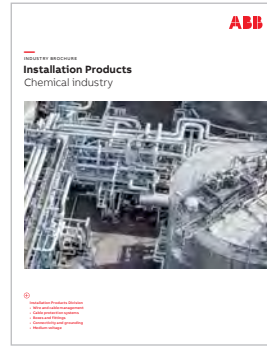
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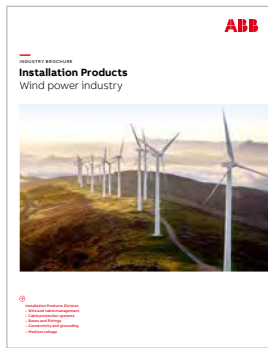
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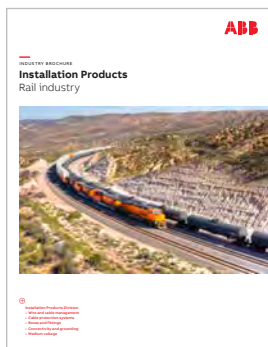
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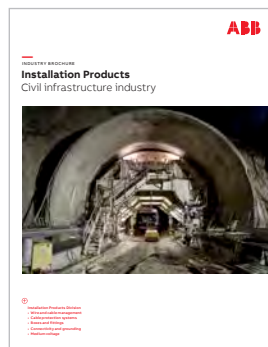
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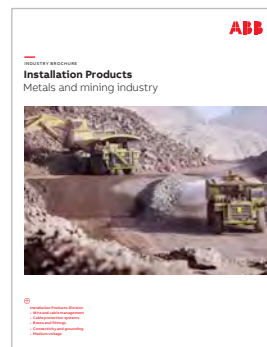
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ABB provides a wide variety of electrical systems and components to help ensure the safety of facilities, equipment, processed or manufactured products and, most important, people.





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**US**

ABB Installation Products Inc.

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