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INDUSTRY BROCHURE

# Installation Products

## Commercial and institutional buildings



### 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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# Designed to perform

## Commercial and institutional buildings

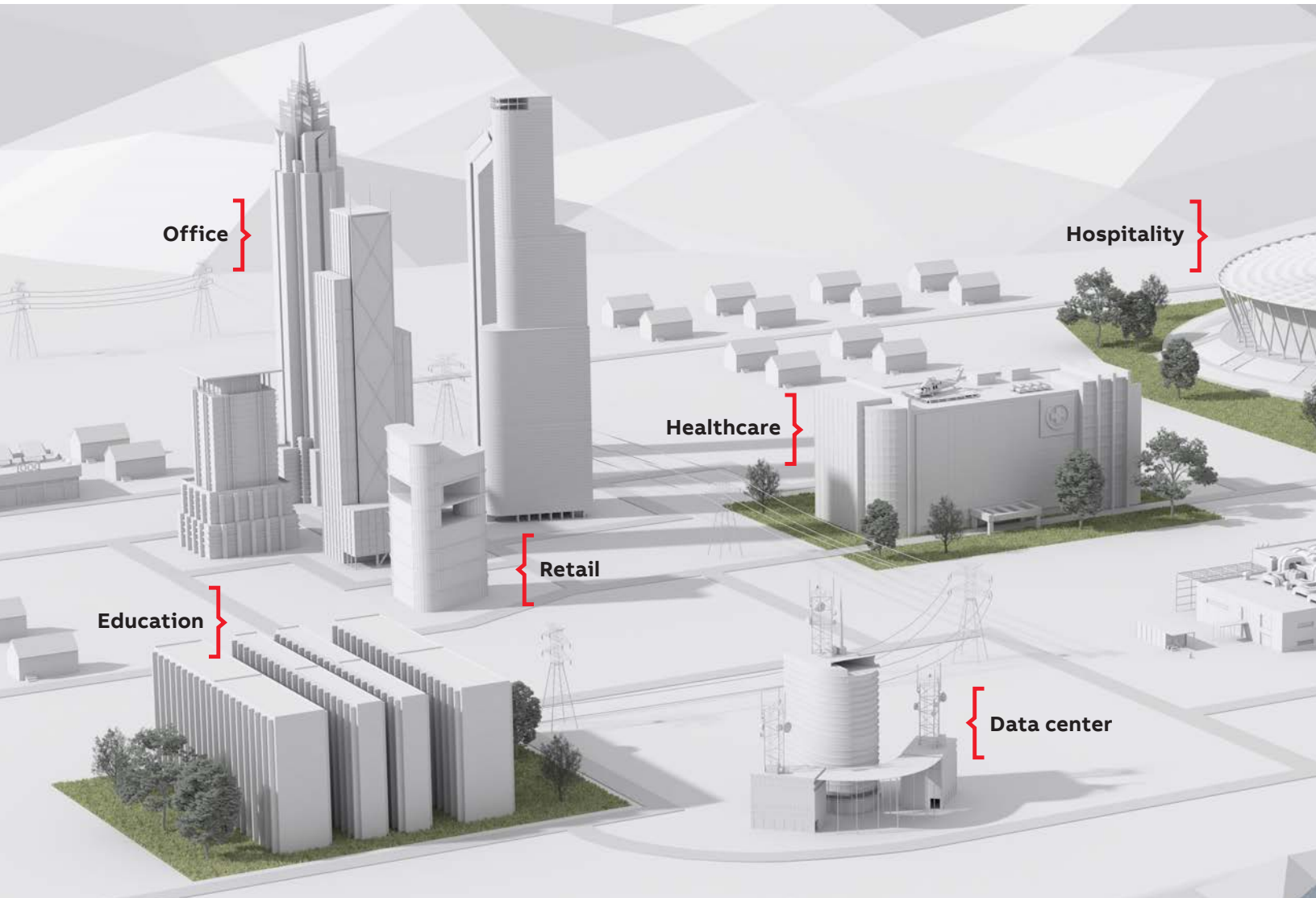


ABB understands the challenges faced in commercial and institutional projects and is committed to providing innovative electrical solutions that not only reduce overall project costs, but also increase safety, promote sustainability and even improve cash flow.



## Installation Products

for commercial and institutional buildings:



**Total project  
cost reduction**



**Continuous operation  
& sustainability**



**Grounding & bonding**



**Safety**



**Power quality,  
efficiency & reliability**



**Services & training**

Whether it's labor-saving rough-in components, custom-designed electrical prefabrication systems, online cloud-based design tools or even our world-class logistics, ABB can help bring commercial and institutional projects in on time, within budget and profitably.

## Product selection guide

for commercial & institutional buildings



### Product selection guide

Product description	Total project cost reduction	Continuous operation & sustainability
<b>Blackburn®</b>		
Compression connectors	•	-
Motor lead disconnects	•	-
E-Z-Ground® compression, mechanical and exothermic grounding systems	-	-
Online configurator	-	-
Ergonomic compression tools	•	-
Standard and HEX-FLEX® crimp die systems	•	-
<b>Carlon®</b>		
ENT System	•	-
<b>Elastimold®</b>		
Solid-dielectric switchgear	-	•
Separable connectors	-	•
Field application engineering	-	-
<b>Kindorf®</b>		
Modular metal framing system	•	-
Trapnut® strut fastener	•	-
Trap-Eze™ connector	•	-
Cobra® one-piece cable and pipe clamp	•	-
Fast set beam clamp	•	-
<b>Ocal®</b>		
Onsite installation certification training	-	-
<b>Red-Dot®</b>		
Code Keeper® weatherproof while-in-use covers	-	•
<b>Sta-Kon®</b>		
Comfort Crimp® compression tools	-	-
<b>Steel City®</b>		
Prefabricated electrical rough-in solutions	•	-
Fire alarm boxes and accessories	•	-
Electrical rough-in components – Boxes, covers, accessories, hangers, clamps and conduit fittings	•	-
68-HP Floor boxes	-	•
665-AV2 Floor boxes	-	•
Online prefabricator	-	-
<b>T&amp;B® Fittings</b>		
Revolver® grounding fittings	-	-
Blackjack® grounding bushings	-	-
<b>Ty-Rap®</b>		
High-performance cable ties	-	-
Ty-Rap Tote® dispensers and ergonomic installation tools	-	-
<b>Services &amp; training</b>		
Online CAD Library	-	-
Tool Leasing Program	-	-
Mobile Solutions Team	-	-
Onsite NEC® Update Training	-	-
Onsite Grounding and Bonding Training	-	-



Grounding  
& bonding

Safety

Power quality,  
efficiency & reliability

Services  
& training

Grounding & bonding	Safety	Power quality, efficiency & reliability	Services & training
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**Blackburn®**

**Carlon®**

**elastimold®**

**Kindorf®**

**Ocal®**

**redodot®**

**Sta-Kon®**

**Steel City®**

**T&B® Fittings**

**Ty-Rap®**

**JOSLYN®**

# 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.

## 01 Steel City®

- Prefabricated electrical rough-in solutions.
- Fire alarm boxes and accessories.
- Electrical rough-in components – boxes, covers, accessories, hangers, clamps and conduit fittings.

## 02 Carlon®

- ENT System.

## 03 Kindorf®

- Modular metal framing system.
- Trapnut® strut fastener.
- Trap-Eze™ connector.
- Cobra® one-piece cable and pipe clamp.
- Fast set beam clamp.

## 04 Blackburn®

- Compression connectors.
- Motor lead disconnects.
- Ergonomic compression tools.
- Standard and HEX-FLEX® crimp die systems.

This includes 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. Material handling aspects - getting all of the components to the proper location on the jobsite – can be a time-consuming, labor-intensive process as well. ABB offers innovative solutions to reduce installation costs.

### Steel City® – Prefabricated rough-in assemblies

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

### Carlon® – ENT (Electrical non-metallic tubing) system

- Cut installation time as compared to rigid PVC conduit

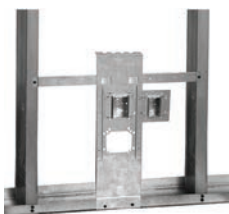
- Material-handling savings with lightweight, flexible coils
- Time savings with quick connect fittings

### Kindorf® – Modular metal framing system

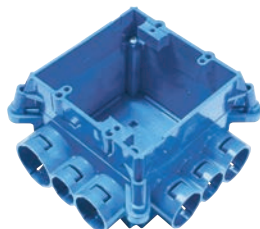
- **Labor savings** - Unique punched framing channels and innovative hardware products cut installation time by over 40% over typical mechanical framing systems
- **Material and inventory savings** - Unique 1½" design requires fewer fittings, lowering jobsite inventory
- **Reduced waste** - Integral and easy-to-use measuring system means exact cuts and less scrap
- **Sustainable finish** – Galv-Krom® trivalent finish offers more than double the corrosion resistance of pre-galvanized product and won't form white rust when stored outdoors

### Blackburn® – Compression connectors

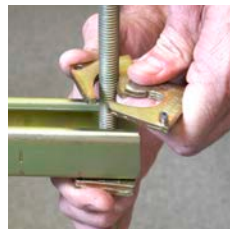
- Featuring the Color-Keyed® Compression System that ensures proper connections
- Design/quote/order custom lugs easily using the Online Configurator to meet the needs of any project – with guaranteed two-week shipment
- Boost efficiency with fewer crimps that yield superior terminations measuring system means exact cuts and less scrap
- **Sustainable finish** – Galv-Krom® trivalent finish offers more than double the corrosion resistance of pre-galvanized product and won't form white rust when stored outdoors



01 **Steel City®**



02 **Carlon®**



03 **Kindorf®**



04 **Blackburn®**



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



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



# Continuous operation and sustainability

Technology and regulatory evolution are driving change throughout our commercial and institutional facilities. ABB 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.

- 01 **Red-Dot®**
- Code Keeper® weatherproof while-in-use covers.
- 02 **Steel City®**
- 68-HP Floor boxes.
- 665-AV2 Floor boxes.
- 03 **Elastimold®**
- Solid-dielectric switchgear.
- Separable connectors.

## Red-Dot® – Code keeper® weatherproof while-in-use covers

- Durable protection for outdoor electrical outlets
- Ideal for parking garage power support
- Complies with NEC® Extra-duty requirements\* 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

## 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 and less scrap
- **Sustainable finish** – Galv-Krom® trivalent finish offers more than double the corrosion resistance of pre-galvanized product and won't form white rust when stored outdoors

— \* NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



01 **redodot**



02 **Steel City**



03 **elastimold**

# Grounding and 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. ABB 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.

## 01 Blackburn®

- E-Z-Ground® compression connectors.
- Ergonomic compression tools.

## 02 T&B® Fittings

- Revolver® grounding fittings.
- Blackjack® grounding bushings.

### Blackburn® – Grounding systems

- Superior grounding and bonding of electrical systems and equipment
- E-Z-Ground® compression connectors
- Mechanical grounding connectors
- Exothermic welding system

### Sta-Kon® – Comfort crimp® compression tools

- Perfect for OEM, MRO and field use
- UL Listed for use with Sta-Kon® connectors
- Shure-Stake® mechanism ensures a complete crimp cycle before release for a proper crimp every time
- Colour-coded die nests for easy matching with Sta-Kon® insulated terminals
- Creates integrity dots for quick verification of proper crimp
- Advanced manufacturing methods for improved durability and tool life
- Lanyard hole in handle for easy tethering to workstation
- Calibration service available through ABB Tool Services

### T&B® Fittings – Revolver® grounding fittings

- Designed for use where an external bonding jumper is required for liquidtight flexible metal conduit
- Revolver® grounding ring provides flexibility in positioning
- Available in steel/malleable iron or aluminum

### T&B® Fittings – Blackjack® grounding bushings

- Superior ground continuity for rigid conduit and IMC
- Use the same bushing on either threaded or threadless conduit
- Innovative design makes installation faster and easier and less scrap
- **Sustainable finish** – Galv-Krom® trivalent finish offers more than double the corrosion resistance of pre-galvanized product and won't form white rust when stored outdoors



01

**Blackburn®**


02


**T&B® Fittings**


—  
ABB can provide onsite  
Grounding & Bonding training  
for your employees.





Nexus® Real-Time Emergency Lighting Monitoring & Control System can tie 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.

# Safety

ABB 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 National Electrical Code® technical committees, as well as a member of the National Electrical Manufacturing Association, ABB helps drive industry-wide code changes or updates in design standards to support our commitment to industry-wide safety.

01 **EZCODE®**

- Danger and warning labels and signs, industrial / wire markers, barricade and burial tapes.

02 **Ty-Rap®**

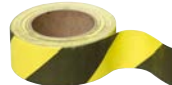
- High-performance cable ties.
- Ty-Rap Tote® dispensers and ergonomic installation tools

**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
- UL® Listed for metal-clad cable support in walls
- Stainless steel for corrosive environments

**Ty-Rap® – Ergonomic installation tools**

- Ease installation and reduce installer strain
- Rotating nose fits into tight spaces easily
- Cut tails off flush and hold ends captive to reduce clean up



**EZCODE®**



**Ty-Rap®**

\* NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.

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# Power quality, efficiency and reliability

ABB 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, ABB has become a leader in custom-designed digital static transfer switches, power distribution and UPS systems.

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01 **Elastimold®**  
• Solid-dielectric  
switchgear.

## **Elastimold® – Solid-dielectric switchgear**

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





— Elastimold switchgear is compact enough to fit through a manhole, modular and field-upgradeable.





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ABB field application engineers are available to provide field training on Elastimold® medium-voltage cable accessories and switchgear.

# Services and training

ABB provides services and training in the field or classroom to help you maximize efficiency and eliminate wasted time and materials on the jobsite.

## 01 Blackburn®

- Online configurator.

## 02 Steel City®

- Online prefabricator.

## Our services

### Blackburn®

- The QTP program provides a guaranteed two-week shipment of Blackburn® products
- Online 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

### 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

### Steel City®

- Online Prefabricator design tool provides drawings, DXF files, pricing and cataloging of custom-designed rough-in electrical support systems

### Joslyn Hi-Voltage® / Elastimold®

- Power & high voltage field service group provides field maintenance for Joslyn Hi-Voltage® and Elastimold® equipment

### Additional services & training

- Free online CAD Library for downloadable 2D and 3D models in more than 90 native CAD file formats
- NEC® Update Training provides an overview of the latest changes to the National Electrical Code®\*
- Grounding & Bonding Training covers design, layout and connections
- Mobile Solutions Team
- Tool Leasing Programs
- Onsite NEC® Update Training
- Onsite Grounding and Bonding Training

\* NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



**Blackburn®**



**Steel City®**

# 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  
• Boxes 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  
• Boxes 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  
• Boxes and fittings  
• Connectivity and grounding  
• Medium voltage

03

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Emergency electrical solutions



① Easy-clearing cable and cable protection for quick-down areas  
• Supporting and diverting power to temporary structures  
• Cable bundling/strapping and identification components  
• Temporary power systems

04

**ABB**

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



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

05

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Liquid ingress protection



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

06

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Extreme temperature protection



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

07

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
Grounding and bonding




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

08

**ABB**

APPLICATION BROCHURE  
**Installation Products**  
SKU Reduction



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

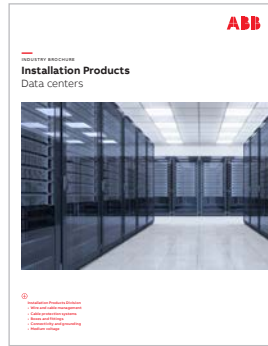
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# Installation Products for industries

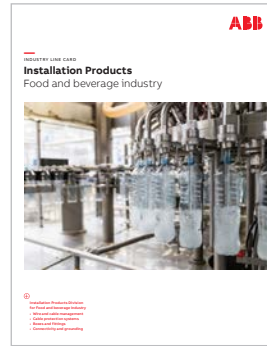
- 01 Commercial and institutional buildings.
- 02 Data centers.
- 03 Food and beverage industry.
- 04 Food and beverage industry - plant assessment.
- 05 Utility industry.
- 06 Power generation industry.
- 07 Chemical industry.
- 08 Oil and gas industry.
- 09 Wind power industry.
- 10 Renewable energy 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



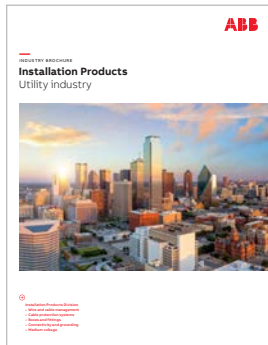
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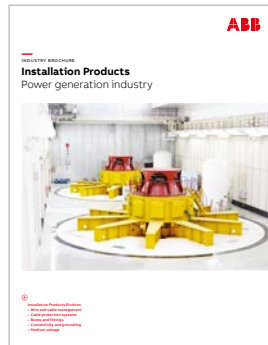
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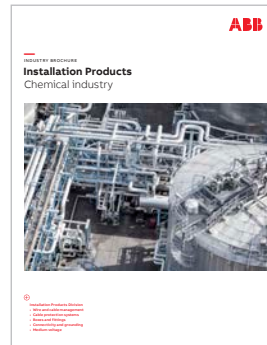
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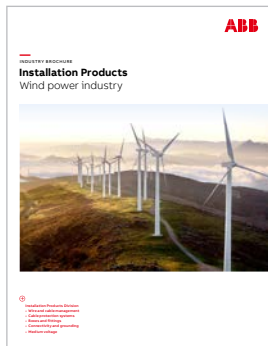
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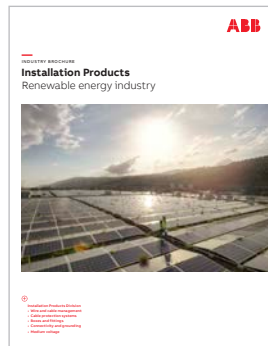
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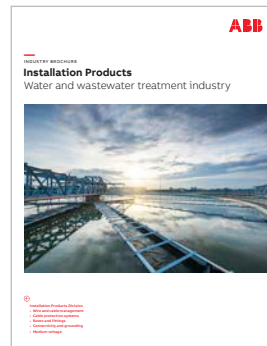
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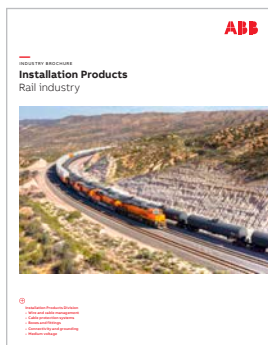
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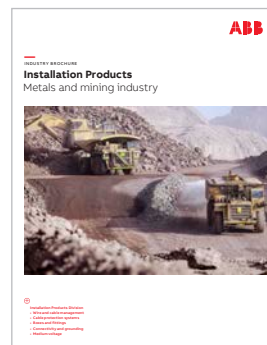
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ABB can bring value to construction projects by providing an experienced engineering resource to manage the programme, costs and most importantly construction safety management on site.







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**US**

ABB Installation Products Inc.

**[electrification.us.abb.com](http://electrification.us.abb.com)**