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APPLICATION BROCHURE

# Installation Products

## Continuous operation and sustainability



### 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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In the most demanding, non-stop operating environments, one single point of failure can lead to costly - or even disastrous - results.



# Because downtime isn't an option

From motor lead disconnects and compression connectors to industrial UPS systems to support the continuous operation of your most critical electrical equipment, ABB provides the electrical systems and components you need to ensure reliable operation and minimal downtime.

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01 Ocal® PVC-Coated  
Conduit System

—  
02 Russellstoll® Pin-and-  
Sleeve Interconnections

Whether your goal is to prevent liquid ingress or contamination of your connectors, or you require fuses that reduce the risk of arc flash hazards, our broad range of services and solutions will help you extend equipment lifespan, reduce capital expenditures, increase operational equipment effectiveness (OEE) and safety and help you standardize your electrical system.

Plus, we can provide installation training certification to help ensure plant reliability and qualified technical personnel to assist you in quickly getting your plant back online.

## 24/7/365 is the new workday

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01



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02



# 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

A large industrial robotic arm, painted in a bright orange color, is shown in a factory setting. The arm is positioned over a silver car chassis, which is mounted on a blue and orange support structure. The background is filled with various industrial equipment, including pipes, cables, and other robotic components, creating a complex and busy manufacturing environment. The lighting is bright, highlighting the metallic surfaces and the intricate details of the machinery.

Increase the operational efficiency and reliability of your critical electrical equipment with ABBs' broad portfolio of solutions, no matter what the application or operational environment.

## Continuous operation & sustainability solutions

### Blackburn®

#### Blackburn® Motor lead disconnects

- Motor lead disconnects minimize motor downtime by eliminating the need for bolting and taping during motor change out and offer a quick, snap-together assembly that is insulated with a slide-on cover
- Featuring the Color-Keyed® Compression System that ensures proper connections



#### Blackburn®

- **Compression connectors**
- Boost efficiency with fewer crimps that yield superior terminations
- 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

### Russellstoll®

#### Russellstoll® Pin-and-sleeve interconnections

- O-ring sealed pin and sleeves ensure continuous operation by preventing electrical circuit damage due to liquid or contamination penetration into the connector device housing



### Shrink-Kon®

#### Shrink-Kon® wire and connector insulation products



- Shrink-Kon® wire insulation products provide superior conductor, connection and termination protection, thus helping to ensure reliable, continuous operations
- High-impact, abrasion, corrosion and chemical resistance

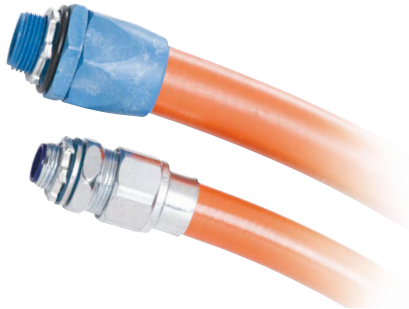
### Kindorf® Superstrut®

#### Kindorf® & Superstrut® Seismic bracing



- Improved design enables easy selection of support and anchorage options
- Can be used in light, medium or heavy applications
- Complete component specifications

**Continuous operation & sustainability solutions**



**T&B® Fittings**

**T&B® Fittings  
Type A non-metallic flexible conduit  
and fittings**

- Fittings available in steel, 304 stainless steel and non-metallic versions
- Ideal for continuous flexing applications or vibration



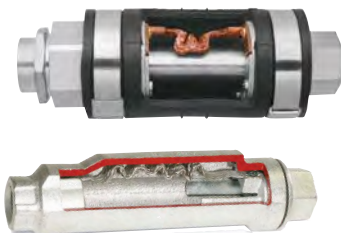
**T&B® Fittings  
Stainless steel liquidtight conduit  
and cord fittings**

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



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

- Ideal for extremely harsh environments
- Available in 304 and 316 stainless steel

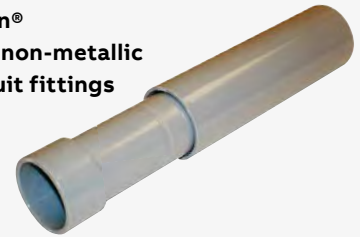


**T&B® Fittings  
XD Expansion/deflection coupling and  
xjg conduit expansion coupling**

- Easier and faster to install allowing time and labor savings
- Unique design offers internal bonding jumper, preventing theft and disruptions

**Carlon®**

**Carlon®  
Rigid non-metallic  
conduit fittings**



- Ideal for corrosive environments
- Rugged PVC construction
- Easy installation
- Impact resistant

**Ocal®**

**Ocal®  
PVC-Coated  
Conduit  
System**



- Superior corrosion protection extends the life of the electrical

**PMA**

**PMA  
High-Performance Flexible Nylon  
Conduit Systems**



- Wide selection of flexible polyamide conduit provides excellent flexing and fatigue life in extreme operating temperature ranges
- Excellent resistance to highly corrosive chemicals
- Complete line of easy-to-install straight and angled fittings
- IP66, IP68 and IP69K liquid ingress protection

## Continuous operation & sustainability solutions

### Carlton®



#### Carlton®

##### Floor box and mud box assemblies

- Non-metallic PVC construction
- Corrosion-resistant hardware ensures long life and reliable performance
- Concrete tight
- Eliminate rust and the need for replacement
- Provide safe handling/installation



#### Carlton®

##### Media boxes

- Support current and future wiring needs for advancing flat-screen technologies

#### Carlton® PH Solutions



- Made of post-industrial scrap
- Unique fire rating saves on material costs
- No need to utilize mineral wool insulation or fire or putty pads

#### Carlton® Vapor barrier boxes



- Integral gasket creates vapor barrier, eliminating the need for messy sealant
- Reduce energy consumption by creating a barrier to block energy loss in a home or apartment

### elastimold®

#### Elastimold®

##### Underground cable accessories and arresters

- Underground cable accessories rated for 5 to 35kV applications include elbows, joints and terminations
- Underground arresters

#### Elastimold®

##### Apparatus

- Standard and custom applications that improve distribution system's reliability
- Switchgear components are fully sealed and submersible
- EPDM rubber construction with stainless steel hardware and mechanism boxes
- No oil or gas to lead, the solid dielectric switchgear is maintenance free
- Deadfront construction insulates, shields and eliminates exposed live parts



#### Carlton® Structured cabling system



- Meets future wiring needs of advancing technology in power and data



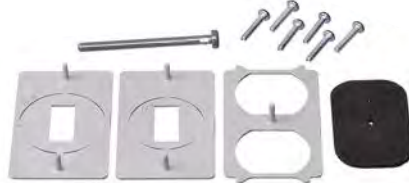
## Continuous operation & sustainability solutions



### red•dot

#### Red•dot® Code Keeper® weatherproof while-in-use covers

- Code Keeper® kits ship with a variety of inserts to accommodate different device configurations
- Kits have everything you need for installation – while-in-use cover, outlet box, GFCI receptacle, mounting accessories and hardware mounting accessories



#### Red•dot® Extra-duty weatherproof electrical covers

- Durable protection for outdoor electrical outlets
- Ideal for parking garage power support
- Comply with NEC® Extra-Duty requirements
- Rugged metal covers provide long service life and superior protection



### Blackburn®

#### Storm-Safe® Service entrance breakaway disconnect system

- Internal O-ring prevents moisture getting into the contact
- External Floor-Seal(R) insulating rockets seal the entire system from the elements
- Dual rated for use with aluminum and copper conductors
- Meets ANSI C119.4-204 specifications

### Hi-Tech



#### HiTech® Current-limiting fuses

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

### Steel City®



#### Steel City® Floor Boxes

- Recessed and flush designs available in many different configurations
- Cast iron, stamped steel and non-metallic body materials available
- Durable solid brass and aluminum covers protect floor outlets

#### 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

# 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.

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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
- Buses and fittings
- Connectivity and grounding
- Medium voltage

03

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**Installation Products**  
Emergency electrical solutions




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- 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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Total project cost reduction



① Installation Products Division

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

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**Installation Products**  
Extreme temperature protection



① Installation Products Division

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

07

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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

08

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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

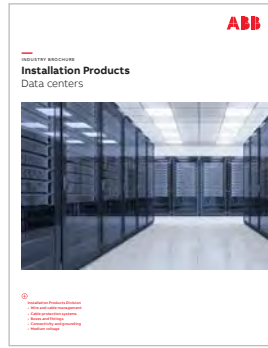
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# Installation Products for industries

- 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



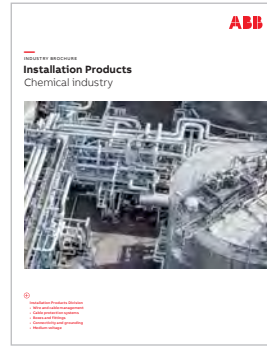
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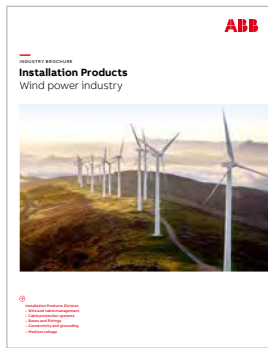
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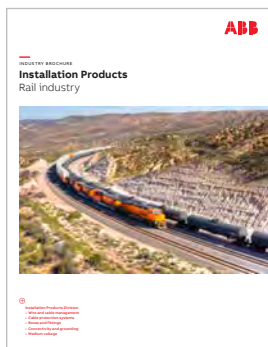
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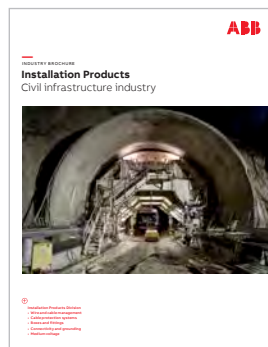
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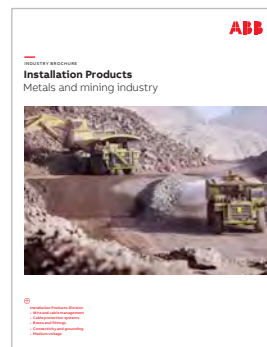
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Our broad range of services and solutions will help you extend equipment lifespan, reduce capital expenditures, increase operational equipment effectiveness (OEE) and safety and help you standardize your electrical system.



—  
**US**

ABB Installation Products Inc.

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