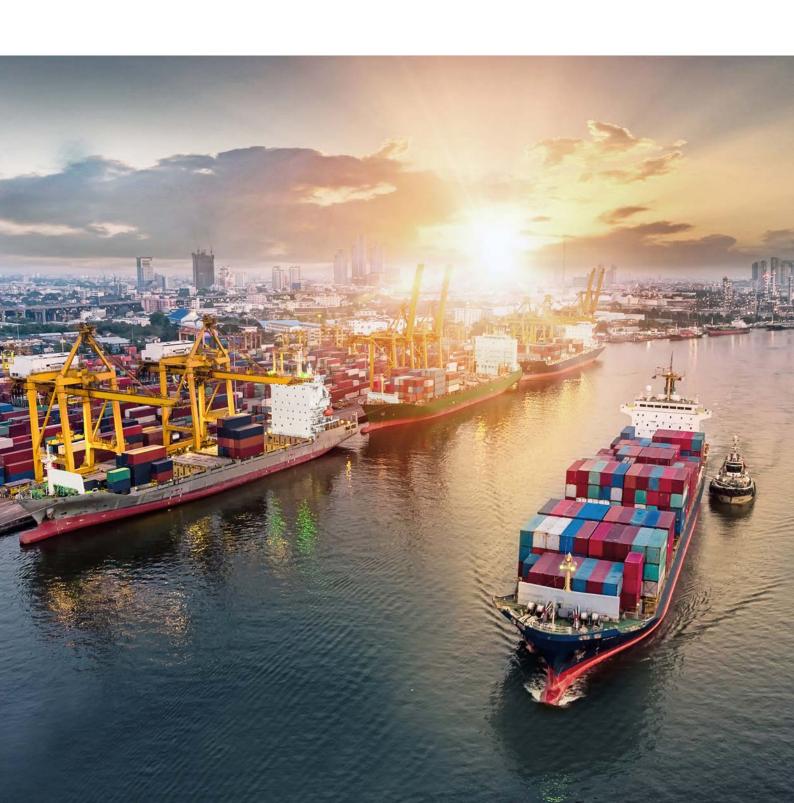


PRODUCT RANGE OVERVIEW

Installation Products Division

Portfolio overview - The Netherlands



ABB's Installation Products Division has a long legacy of providing quality products and innovative solutions. From safeguarding critical infrastructure on Earth to cable ties that help put machines in space, we continue to deliver solutions that provide a smarter, safer and more reliable flow of electricity from source to socket.

Download your catalogue / brochure

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Designed to perform

Installation Products Division

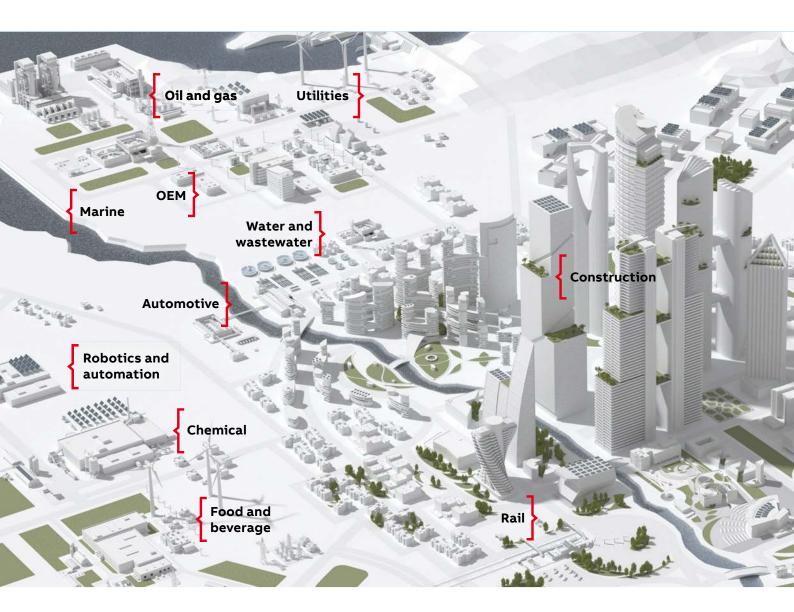
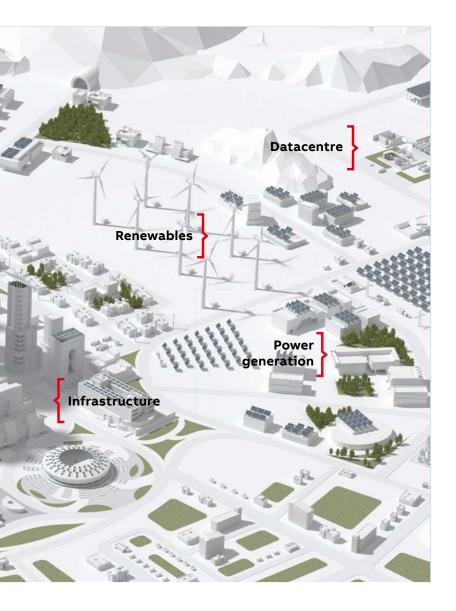


ABB Installation Products Division understands the challenges faced in projects and is committed to providing engineered installation solutions that not only reduce overall project costs, but also increase safety, promote sustainability and even improve cash flow.

DESIGNED TO PERFORM







Engineered installation products for:



Safety



Continuous operation



Power quality, efficiency & reliability



Efficiency



Corrosive & harsh environment protection



Grounding & bonding



Hazardous location protection



Liquid ingress protection



Extreme temperature protection



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 projects in on time, within budget and profitably.

ABB Installation Products Division

Solutions tested to the highest standards

ABB Installation Products Division has heavily invested in testing facilities at it's Coleshill (UK) manufacturing site. These testing facilities offer a broad spectrum of testing capacity, from feasibility research to ingress protection, mechanical testing and the accelerated simulation of extreme working environments. The infrastructure across our site includes hi-end test equipment, most notably, an automated ingress protection water chamber capable of IP X5, X6, X9 testing in accordance with many globally recognised standards.





SEE MORE



ABB's manufacturing and testing facilities in Coleshill, UK Cable protection systems by ABB.



SEE MORE



Introducing ABB's testing centre of excellence for cable protection, Coleshill, UK.



Worldwide recognitions

All our Installation Products are rigorously tried and tested to meet the demands of industry standards worldwide. This means our solutions can be used across a wide variety of applications, including those in the harshest and most aggressive environments.





























Furse®

Structural lightning protection





Furse® lightning protection products deliver effective life safety, together with long-lasting, reliable protection for both structures and critical electronic systems. The product line offers a complete solution for lightning and electronic protection.

IEC/BS EN 62305 makes clear the need for a combined lightning protection solution including both structural and electronic systems protection.

The Furse® Total Solution takes into account many potential risks associated with lightning strikes, and incorporates all the elements necessary to deliver both effective structural lightning protection, as well protection against surge and transient overvoltages.

Including:

- Air termination systems
- · Lightning protection conductors
- Conductor clips, clamps and holdfasts
- Bimetallic connection components

CATALOGUE

MORE INFO





Furse®

Surge Protection Devices (SPDs)









CATALOGUE

MORE INFO





One of the most common causes of damage to these systems are transient overvoltages - short duration, high magnitude voltage peaks with fast rising edges, commonly referred to as surge. Lightning strikes are the most common source of extreme transient overvoltages, however electrical and electronic equipment is also continually stressed by hundreds of transients that occur every day on the power supply network through switching.

Electronic systems now pervade almost

every aspect of our lives, both at work and

at home. As a society, we are heavily reliant

of computers, electronic process controls

on the continuous and efficient running

and telecommunications networks.

All Furse® Electronic Systems Protection (ESP) products are designed to provide simple system integration whilst achieving the highest levels of protection against transients. The Furse ESP range of SPDs (mains power, data and telecom) are widely specified in all applications to help ensure the continuous operation of critical electronic systems, helping to form a crucial part of a complete lightning protection solution to IEC/BS EN 62305.

Furse® SPDs are made for protecting:

- · Mains power
- · Data & signal lines
- Telecom & computer lines
- · Other specific electronic systems

Furse® Earthing









In addition to the right conductor for the application, an effective earthing system relies on joints and connections to have good electrical conductivity with high mechanical strength. All Furse® earthing components are designed to withstand mechanical damage, as well as the thermal and electromechanical stresses from the expected earth fault and leakage currents.

This integrated approach ensures all systems are appropriately cross-bonded and earthed, safeguarding against the risk of voltage differences which might otherwise give rise to flashover or electric shock.

Furse® earthing components are manufactured to meet exacting British, European and International standards, ensuring robust, long-lasting performance in even the harshest soil conditions.

Including:

- Earth rods & conductor systems
- Mechanical earth clamps and bonds
- FurseWELD® exothermic welding
- Earth bars and equipotential bonding

CATALOGUE

MORE INFO







Harnessflex® conduit systems

Protecting critical electrical wiring

















Specialist Conduit Systems are a leading designer and manufacturer of flexible conduit systems and connector interfaces, protecting critical electrical wiring assemblies in heavy automotive vehicles. Harnessflex offers complete system solutions for the routing and protection of electrical wiring against damage by mechanical abrasion, liquid ingress and corrosion salts. Using a Harnessflex conduit system ensures that vulnerable connectors are not exposed to the elements, impact of foreign bodies or jet washing, all of which can cause vehicle malfunction and failure. Our success has come from our systematic commitment to

Established in 1984, Harnessflex®

providing an extensive range of high-grade quality components, combining a full range of slit and un-slit conduit, fittings and connectors, as well as specialised solutions for extreme temperature operation and electric vehicles.

Applications:

- Agricultural vehicles
- · Construction vehicles
- · Engine manufacturers
- · Harness Manufacturers
- · Truck & bus manufacturers
- · Tanker & trailer manufacturers
- · Specialist vehicle components • Electric Vehicles
- · Military vehicles

Kopex® Hi-Spec

Metallic conduit systems







MORE INFO





Kopex® conduit systems stand for quality and reliability. Quality assurance in manufacture is backed up by accreditations from major organisations worldwide.

- Conduit sizes from 10mm up to jumbo size 75mm
- High compression/crush strength
- · Tensile strength pull off load under tension
- Impact resistance
- Inherent fire protection on uncoated versions
- · Corrosion resistant stainless steel options

- Proven patented design over 20 years in service
- · Application support and custom design
- Lifetime warranty

Approvals and certifications:

- · Our testing system includes weightdrop, tensile strength and bend tests.
- · ISO 9001:2015
- BS EN IEC 61386-1:2008
- Following the provisions of the low voltage Directive 2014/35/EU

Adaptaflex®

Flexible conduit systems























Adaptaflex® is a market-leading flexible conduit system brand that can be found all over the world. Combining innovative design with dedicated manufacture it offers customers one of the world's broadest ranges of cable protection products and solutions. With a choice of over 6000 products the range covers metallic and non-metallic flexible conduit systems for the protection of critical power and data cable.

The system solutions from Adaptaflex need to perform in a wide variety of environments, from high temperature to freezing conditions.



The products are designed and tested to withstand constant vibrations, water ingress and offer corrosion and chemical resistance.

Products are available in many different materials, including halogen free, low smoke and low toxicity materials. An extensive range of engineered solutions are designed to withstand the rigours of some of the most technically-demanding markets. So whatever your project involves, our experience will provide the answer, helping you to specify the correct flexible conduit system.





Ty-Rap®

High performance cable ties

Ty-Rap®















Offering unequalled quality, Ty-Rap cable ties provide superior performance in any application, and characteristics include resistance against extreme temperatures, flames, continuous sunlight and UV radiation, aggressive chemicals and heavy tensile strength.

Wide range of cable ties available including:

- Natural
- UV-resistant
- Coloured
- Flame retardant
- · Anti-microbial detectable
- Extra high-temperature resistant







Ty-Fast®

All-plastic cable ties

Ty-Fast®



MORE INFO





The all-plastic cable ties are available in lengths from 100mm to 1220mm and widths from 2.5mm to 12.4mm, offering a loop tensile strength up to 1200N. These cable ties will satisfy bundling requirements up to 375.5mm. Made of halogen and silicone free Polyamide 6.6, these cable ties are available in natural and black UV-resistant.

Ty-Fast® cable ties meet shipbuilding classification such as DNV-GL, Lloyd's Register of Shipping, Bureau Veritas. Ty-Fast® cable ties have a CE declaration, supported by compliance to the low voltage directive and EN/IEC 62275.

On top the Ty-Fast® range is also compliant to UL 62275. State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process.

Suitable for indoor and outdoor applications:

- Material: Polvamide 6.6
- Color: Natural or black
- Halogen and silicone free
- Heat stablised + UV-resistant cable ties available for outdoor applications that also require a resistance to high temperature +115°C

Ty-Met®

Stainless steel cable ties

Ty-Met™





CATALOGUE



ABB provide unrivalled stainless steel cable tie solutions. Our Ty-Met® product range is highly regarded by electrical contractors, electrical installers and electricians, and used throughout many sectors, including petrochemical and food processing industries, power stations, mining, shipbuilding, offshore and other aggressive environments. These ties are available in 316 grade (marine grade) stainless steel, providing extra corrosion resistance.

Range includes:

 Ball-lock type: quick and reliable self-locking mechanism

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- Ladder type: easy application and strong locking system
- Strap type: either pre-assembled or on reel with separate heads
- Releasable type: can be unfastened for re-use
- Identification system: durable in tough environments and extreme conditions
- Band on reel with separate heads for a cost saving installation without waste



ABB Wiring Duct®

Wiring duct systems

ABB Wiring Duct®



CATALOGUE



Its new rib profile makes **ABB Wiring Duct®** easy to open and close the cover and guarantees that it clips on more safely.

- Controlled splaying of sides to ensure a perfect seal of the cover in the vertical sections and at high temperatures
- Double trimming line, one at the base of the ribs so that they can be removed by bending them outwards and one at the base of the lateral sides so that the edge can be cut when two wiring ducts are branched
- Cover can be opened without having to use a special tool
- Can be mounted on horizontal or vertical surfaces

- · Colour: RAL 7030 grey
- **Plastic** insulating, shock-proof, self-extinguishing material
- Maximum usage temperature +60°C
- Resistant to acids, oils and greases
- Designed to snap onto the Fix-O-rapid special accessory, suitable to be fastened both to DIN rail and base plate
- The ribs are cut using a special pressing process (rounding of the edges) free of burr and rough edges

Standards:

Material in compliance with UL 94 V0 Standard and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard.

CONNECTIVITY SOLUTIONS

ABB Cable Glands®

High-specification glands

ABB Cable Glands®













The ABB Cable Glands range offers high-specification protective cable glands suitable for harsh conditions, including high or extreme temperature ranges, oil and UV exposure, Data Centre use, or highly corrosive environments. Solutions are also readily available for a broad range of general-purpose uses.

Cable glands provide sealed entry into enclosures, motors, panels, or any other device, limiting the ingress of water and dust. Regardless of the configuration, ABB's high-quality standards help to extend system life and minimise downtime.



The complete ABB line of cable glands and fittings is complemented by the worldwide availability of ABB's comprehensive cable protection portfolio. ABB's offering is amongst the world's largest range of electrical equipment for hazardous, explosive, classified and industrial environments.









Shield-Kon®

Shield termination systems

Shield-Kon®





The Shield-Kon® solution from ABB involves a crimp technique for shield termination on shielded cables. ABB offers two solutions:

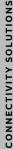
- The one-piece Shield-Kon connector wraps around the shield and has a specific pocket for the ground wire.
- The two-piece Shield-Kon connector consists of two sleeves that are compressed between the shielded braid and the drain wire.



Saves time and reduces assembly costs:

- · This solderless, wraparound connector terminates shielded cable provides a compact, lightweight, low-resistance, high-strength connection.
- · Particularly well suited for production work in electronic industries where size and weight are important.
- · The connector works equally well on braided, wrapped or foil shields and has the added advantage of being able to be used as a mid-span termination.
- · Overview with only four sizes, which can be easily identified by the color of their insulation, are needed to cover a range of shielding diameters from 0.05" to 0.3".







Sta-Kon®

Crimped wire termination systems

Sta-Kon°







Sta-Kon® wire terminals offer more copper and a wider funnel to help ensure a premium connection with less work in a line that includes insulated and noninsulated terminals, splices, wire joints, disconnects, ferrules, heat-shrinkable terminals, splices and disconnects.

• Sta-Kon Terminals: made of high-conductivity copper with corrosion-resistant plating, include marked stud and wire sizes, a long chamfered barrel to eliminate missed crimps, a deep internal serration to produce a larger contact area, and selective annealing, to leave the barrel soft for crimping while the tongue remains strong.



- Heat shrink insulation products:
 Provides durable protection against moisture, corrosion and abrasion.
- Shielded wire terminations: One-piece solderless, wraparound shield connectors terminate shielded cable in seconds with uniform precision while preventing cable damage that may be caused by soldering.
- Insulation piercing connectors:
 Permanent, low-resistance electrical connections, capable of maintaining contact integrity throughout the life of the connection.

Shrink-Kon™

Heat shrink insulation products

Shrink-Kon™







 Provide durable protection against moisture, corrosion and abrasion



- Cover a full range of wire sizes from #46 AWG to 2500 kcmil
- Thin wall tubing available in 8 different colors, including clear and can be ordered in different lengths.

Shrink-Kon™ Self-Fusing insulation tape:

- The self-fusing tape is a quick and easy-to-install product and does not require heat or adhesive.
- Simply stretch and wrap along the center line to create protection of the connection against moisture, and corrosion and create dielectric seal.

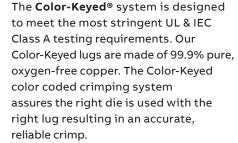


Color-Keyed®

Compression connections

Color-Keyed®





 Reliability: Color-Keyed dies are designed to produce a circumferential, hex- or diamond-shaped compression rather than a simple indent resulting in assured high conductivity, exceeding IEC 61238-1 and UL standards.



proper terminations every time.

Stranded Wire Termination:
 The precision hardened steel dies used by the Color-Keyed system exert tremendous controlled pressure on the connector and form the strands and connector into a solid mass.

 Verifiable and Inspectable: A die code embossed onto the Color-Keyed connector during compression makes it easy for inspectors to compare the finished crimp with the die table to verify correct termination.







furse 🕞

Design & technical

solutions

Harnessflex®

Providing superior protection for automotive wiring harnesses

02

Literature

Download your catalogue / brochure





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devices (SPDs)



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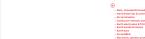




Furse earthing & lightning protection

Brand overview













ABB



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ABB



Ty-Fast® Fastening solutions Easily bundle, secure and manage your cables Tv-Fast

ABB

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10 ABB Wiring Duct® wiring duct systems



11 ABB Cable Glands®



12 Terminations solutions (Shield-Kon® / Sta-Kon® / Color-Keyed®)



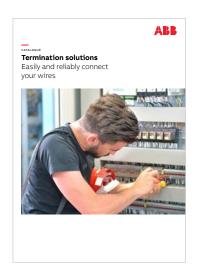
13 Heatshrink solutions (Shrink-Kon®)





PRODUCT CATALOG

Cable glands
for Global Applications



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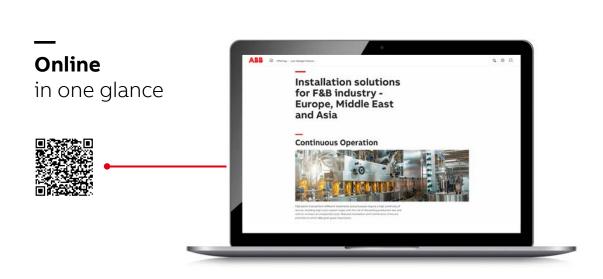




ABB b.v.

Installation Products Division

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Algemene informatie

abb.nl/lowvoltage

Support

abb-elsupport.nl





Volg ABB ook via:

▼ ABB Electrification NL

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