

ekabel

**POWER GEN**  
Power Generation Solutions





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## Power Generation Solutions

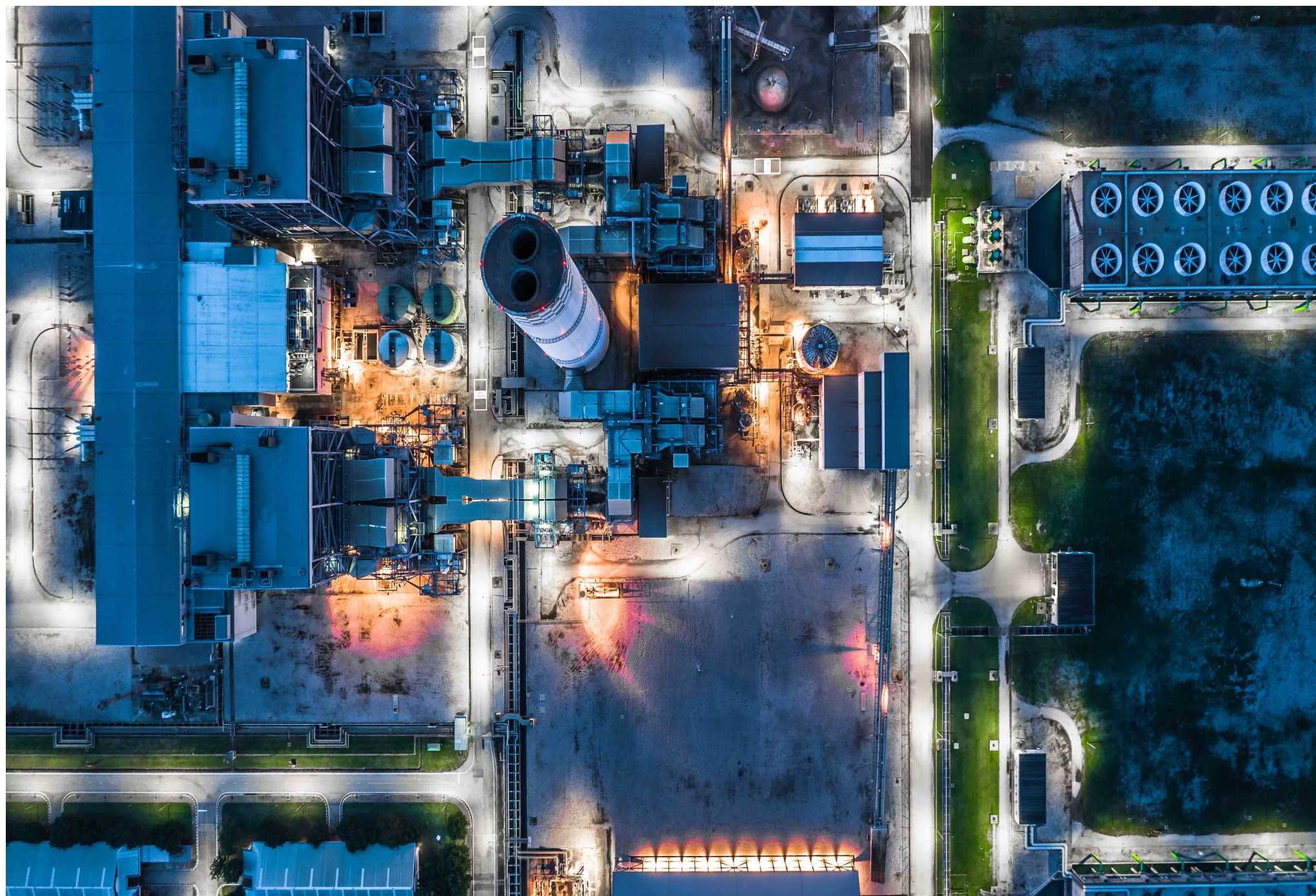
Currently the demand for electric power in the world at a fast pace, so the creation of new power generation plants is a primary need for the industry.

Power plants require high power security standards in their facilities to guarantee an operation and a safe, reliable and efficient energy supply.

At Ekabel we know perfectly the energy needs of generation plants and our Engineering Team provides complete solutions to EPC groups, End Users and Operators.

We are committed to safety and quality in the process of power generation. To achieve this we offer a broad portfolio of solutions oriented to the needs of our clients for the electrical installations of the generation plants. Our portfolio includes grounding systems, support systems and conduits, high voltage, medium voltage, low voltage, control and instrumentation conductors, communication and optical fiber conductors, terminals, connectors, and much more.

We are committed to technological progress in the industry and our customers, for this reason we innovate continuously using the latest technology to monitor vital assets in the power generation process and complying with the most international rigorous standards.







## 1 Grounding Solutions SERIES SC, SERIES SW, SERIES SX

Copper bars for grounding, copper conductor for grounding and copper compression connectors or mechanics, offered together with exothermic welding systems. This is the best alternative for electrical grounding systems. The Ekabel grounding system is certified and tested under **ASTM B1, ASTM**



## 2 Equipment and Accessories Solutions

Suitable for installation of medium or low cable tension, provide protection against moisture penetration.

Resistant to UV rays, long anti-tracking exterior tube life, terminations with or without flaps.

Slim profile for installation in confined spaces. Can include compression connectors. Tested and manufactured under **IEEE 48, IEEE 404, DIN 53455, DIN 53495, UL 486D, CSA C22.2 No. 198.2** as well as the requirements of **ICEA** and **NEMA**.





### 3 Low Voltage Solutions SERIES CX.SN.JZ, SERIES CB.SN

Ekabel has several power cable solutions in medium and low voltage for feeder circuits and derivatives. With a wide variety of insulations such as XLPE, EPR, PVC, LSZH, among others. We can adjust to any needs of our customers. All drivers are tested and manufactured under **UL 1072, UL 1277, UL 13, UL 44, UL 83, UL 2464, NEC Art. 800**, as applicable.



### 3 Energy Transmission Solutions

Different types of cables (AAC, ACSR / AS, ACCC, etc.) intended to transmit previously generated and transformed energy and to inject it into the power electrical system. Ekabel transmission cables are manufactured and tested under **ASTM B-230, ASTM B-231, ASTM B-549, ASTM B-232, alloy 1350-H19**.



### 5 Optical Fiber Solutions

Ekabel provides fiber optical solutions for communications that is manufactured and tested, **TelcordiaGR-20, ICEAS-87-640, IEEE802.3z, IEEE802.3ae**.

We have a wide variety of materials for different configurations of conductors, such as **PVC covers, MDPE, LSZH**, among others. Ekabel's fiber optic cable can be manufactured with metal or dielectric armor, providing a solution for every one of our customer's needs.



### 6 High Risk Installation Solutions (Fire Resistant) SERIES ZC, SERIES ZH

Control and instrumentation cables designed to operate under extreme fire conditions with UL 1709 and IEC 60331 certification to 1093 °C up to 3 hours.

These cables are manufactured and certified under **UL1709 and IEC 60331**.



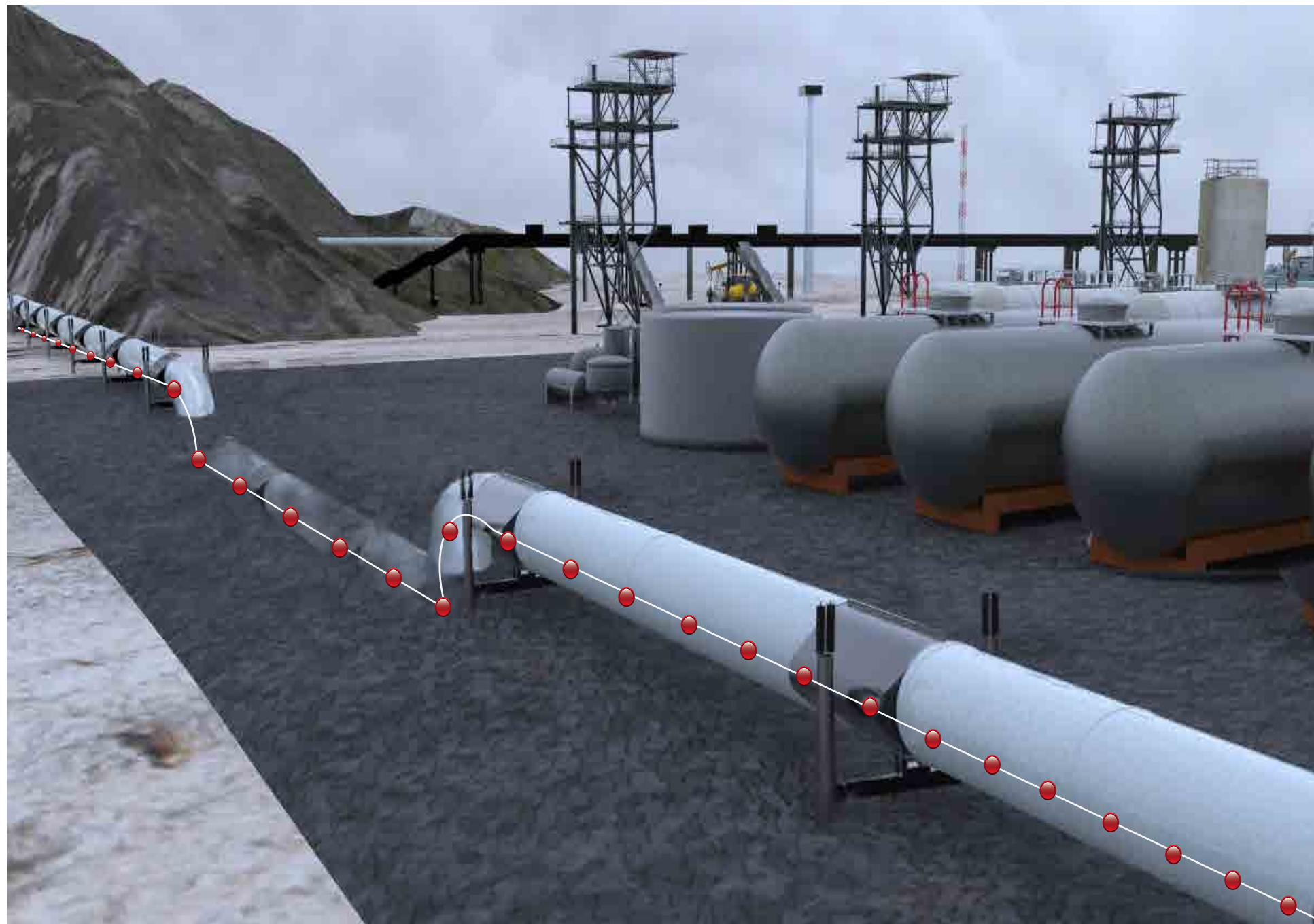
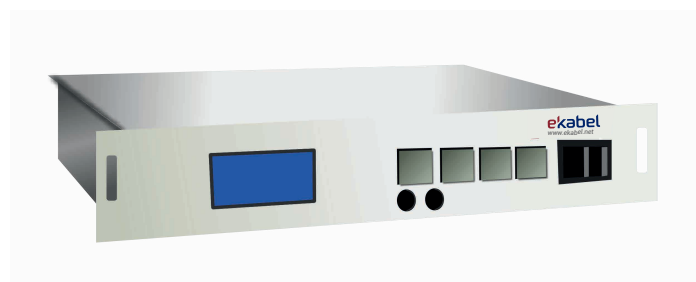


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## Integrity Systems Solutions

Ekabel's integrity system are unit fiber optics based sensor technology for permanent monitoring of the generation facilities. This technology allows continual monitoring of parameters such as temperature, pressure and vibration; as well as intrusion of third parties, with the aim of preventing overloads, leaks or incidents that may pose a risk to personnel and the assets of the facilities.

With a single piece of equipment it is possible to monitor up to 140 km of pipelines, as well as the integrity of hydrocarbon storage tanks 24/7.





## Communications Solutions

### 1 Profibus Cables SERIES EPA

The Profibus PA drivers from E KABEL are ideal for the automation processes in the connection of sensors and actuators; even in areas with explosion risk.

They are manufactured and designed under UL 1685, NEC Art.725, 727 ITC, 800 Communications, 501 Areas Dangerous Class 1 Div. 2, and IEC 61158-2E.



### 2 Optical Fiber

Ekabel optical fiber cables provide an efficient and reliable data transmission, can be manufactured in Multimode type or Single mode (G652.D, G657.A2, G657.B3). They meet with the standards of **ICEA S-87 -640, Telcordia GR-20, TIA-598-C**



### 3 Electronic Cables RS-485 SERIES ELC

RS485 cables are designed to be used in computer equipment, industrial equipment, data transmission and circuits with requirements of low capacity. Comply with NEC Art. 725 PLCT, Art. 800 communications and UL 1685.





## Raceways and Support Systems Solutions

The raceways and support systems are designed to provide an installation secure to the underground, surface and aerial wiring systems required in the electrical installations of the generation plants. They can be manufactured in galvanized steel, galvanized steel covered with PVC or Fiberglass. All the raceway components and supporting systems are tested and certified under UL.

### 1 Cable Tray Systems



### 2 Medium Voltage Cables (primary and secondary distribution)



Series PH.



Series PR.

### 3 Unistruts



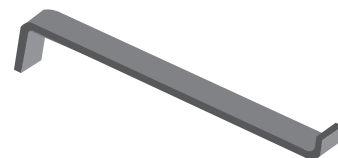
### 4 Clamps



### 5 Cable Ties



### 6 Brackets





## Equipment and Accessories Solutions

Equipment and accessories for substations are required for adequate distribution and control of the electric power used in electrical installations, providing a reliable supply at all times.

1 Medium Voltage Cabinets



2 T-body



3 cold and hot shrink terminations



4 cold and hot shrink splices



5 Elbows



6 Optical Fiber





## Grounding System Solutions

The Ekabel grounding system provides the necessary security for limit and drain fault currents that may occur in the system, it also provides a reference to stabilize the voltage throughout the installation.

The grounding systems of Ekabel mainly composed of bare conductors, mechanical and pressure connectors, electrodes, molds prefabricated, exothermic welding, copper bars, among others.

All components are certified under UL 467 and comply with what is required by the National Electrical Code (NEC) for electrical installations.

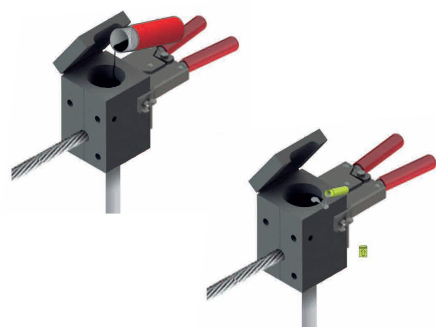
1 Bare and insulated conductors



2 Electrodes



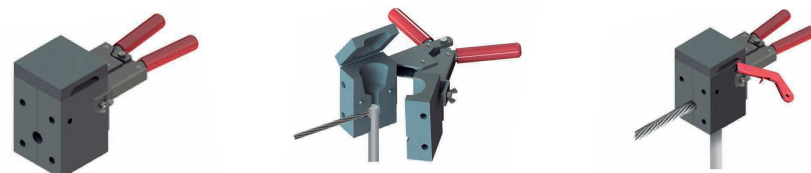
3 Equipment to exothermic welding



4 Connector



5 Prefabricated molds to exothermic welding.





## Who We Are

A team of professionals with vision of the future and action oriented.

We are passionate about designing solutions that respond to the needs of customers.

## Where We Are

With offices in Latin America, the United States, Australia & Spain, Ekabel has consolidated its rapid expansion and has participated in numerous important projects.

## What We Do

Based on expert knowledge, we design and integrate energy systems, telecommunications and automation to optimize results for our customer and protect their most value assets.







# Our Philosophy

## 360 Integration

When it comes to energy systems and connectivity networks, we've got you covered.

Our ability to integrate several products in a single proposal is the backbone of our service.

## Borderless Logistics

Streamlined delivery is part of our signature service in order to meet client needs.

## Brain HUB

Our team of top level engineers from around the world, with heavy expertise in the industries we serve, provides our clients expert advice on most challenging projects.

Global Service Team  
Experts devoted to help you.

Technology Transfers  
Specific training sessions in latest topics.

## Flexibility

Our geographic expansion allows us to offer competitive advantages on both small and large projects.

Global reach with local support.





# Contact Information

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