



inse

Group

*Specialized Electrical
Solutions for Oil&Gas*

www.inse.com.co

About Us

We are a Colombian engineering company founded in 2004 in Cucuta, Norte de Santander. We specialize in the commercialization of Specialized Electrical Solutions, with a strategic differentiation approach and a strong focus on added value.

We serve strategic sectors such as Mining, Energy, Oil & Gas, Ports & Shipyards, and Heavy & Light Industry in Colombia and Latin America.

Market Coverage

Strategic Partners

TFKable

ADRIA
POWER SYSTEMS®

Littelfuse®

x-Glo
Eufra - Babel - Babel

GRACE
TECHNOLOGIES

MARECHAL
ELECTRIC
MARECHAL® TECHNOR® MELTRIC®

MegaResistors
Your best choice for power resistors

Our Clients

ecopETROL

ZiJin
CONTINENTAL GOLD
Minería Moderna

ANTIOQUIA
GOLD INC

ARIS MINING

Mineros
COLOMBIA

Grupo COQUECOL

Pazdel Río
ES COLOMBIA

ens

CARBOMA

DRUMMOND COMPANY, INC.

termotasajero
colgener

EEGSA
Grupo eppg

enel

Air-e
la fuerza que transforma

energía
DE PEREIRA

ARGOS

CEMEX

cerámica italia
Un paso adelante en decoración

AGUAS DE CARTAGENA

Sociedad Portuaria Buenaventura
EL ALIADO DE LA COMPETITIVIDAD

SMITCO
Sociedad de Inversión y Comercio Exterior

SYZ
www.grupo-ayz.com

Our solutions comply with current RETIE regulations.



Special Cables



Special Cables



Special MV feeder cables for fixed use



MP-GC
5kV/25kV



MP-SWA
8kV/25kV



MV-105
5kV/35kV



MV-90
5kV/35kV



Mobile MV feeder cables for temporary power supply



SHD-GC
2kV/25kV



SH
5kV/35kV



Rubber cables for harsh chemical and physical environments



SJ00W
300V



H05RN-F
300V/500V



H07RN-F
450V/750V



N)TSKRWOU-J
600V



SOOW
600V

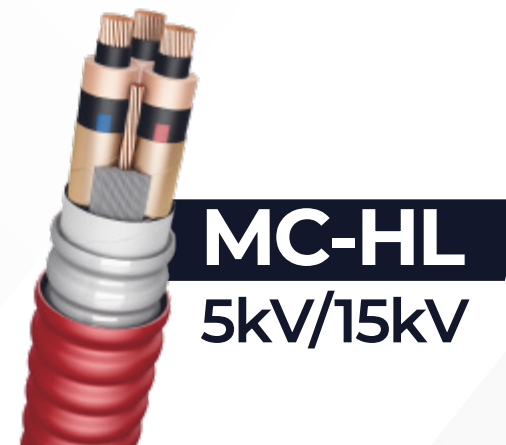
Special Cables



Industrial cables, shielded, armored, halogen-free



Cables for Variable Frequency Drive (VFD) applications



Special Cables



Submersible cables for pumps and ESPs



AQUAFLEX
2kV



ESP CABLE
5kV



Fixed and flexible cables for classified areas



UX
250V



BFOU
250V/1000V



RFOU
250V/1000V



SOOW
600V



W
2kV



G
2kV



MC-HL
5kV/15kV



SHD-GC
2kV/25kV



Marine and Offshore



NTKOXSEkw
300V



FLAME-X 950
600V



BS 6883
Hasta 1 kV



BS 7917
Hasta 1kV



NEK 606 R
Hasta 1kV

Special Cables



Festoon cables, chain and crane.



NSHTÖU-J
0.6/1 kV



R-(N)TSCGEWÖU
0.6/1 kV



(N)GRDGÖU-J/O
0.6/1 kV



FOMFLEX
Fibra óptica



NGFLGÖU-J/O
600V



High Temperature Cables



EI-Therm
105°- 500°C



EI-MVTher
1.8kV/13.8kV

Portable Systems

inse
Group

ADRIA
POWER SYSTEMS®

Varelen

Portable Substations and Switchgear Trains



Portable Substations

Transform medium voltage to low voltage.

- Input voltage: 34.5 kV / 13.2 kV
- Output voltage: 480V
- Power: 3kVA



Switchgear Trains

Medium voltage equipment for protection, measurement and sectioning.

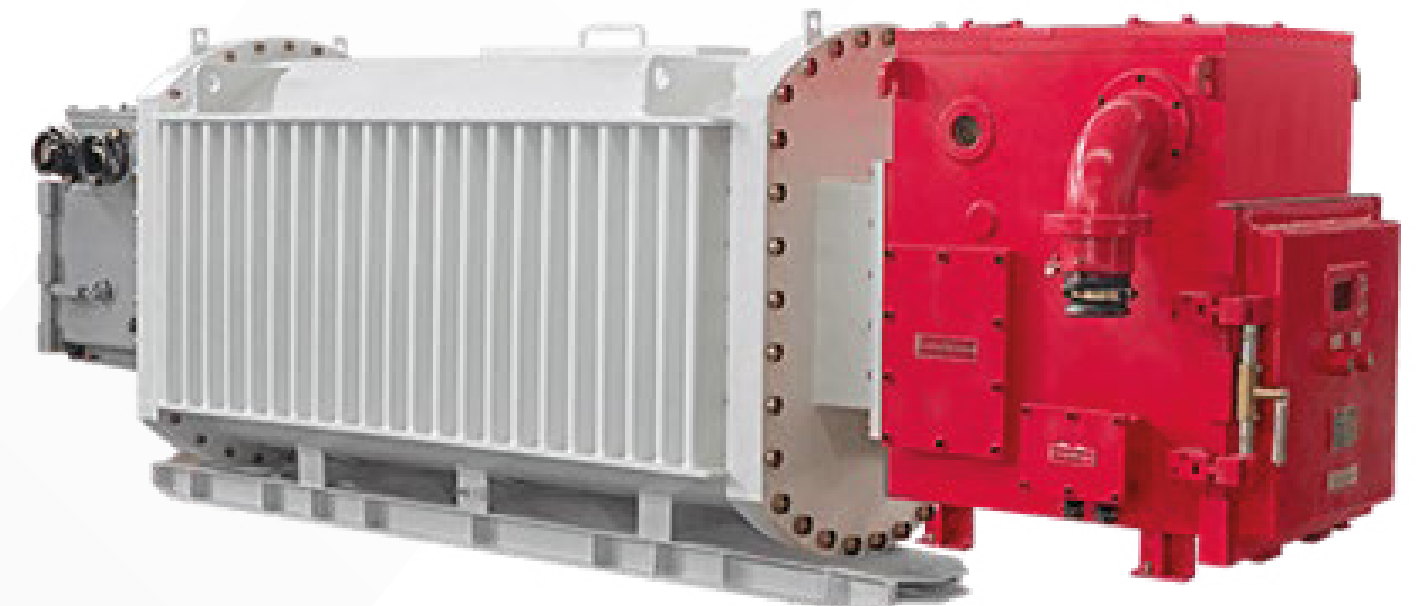
- Primary voltage: up to 38kV
- Rated current: 630 amps



Ex Substation

Certified medium voltage solution for classified areas.

- Power: 300 kVA to 1250 kVA
- Primary input: 4.16 kV to 13.2 kV
- Secondary: 460 V



Temporary Backup System

EmergencyCable

An integrated, portable, and temporary solution for medium-voltage emergency connections, designed for fast field electrical backup. It enables connections between electrical systems when load transfer, testing, maintenance, or contingency response is required.

- Reduces operational times and avoids permanent installations.
- Minimizes downtime during testing or maintenance.
- Designed for easy deployment and retrieval.



Electrical Safety



SmodFire
Sistema de Detección y Extinción de Incendios
en Subestaciones y Sistemas Eléctricos



Littelfuse®



MegaResistors
Your best choice for power resistors

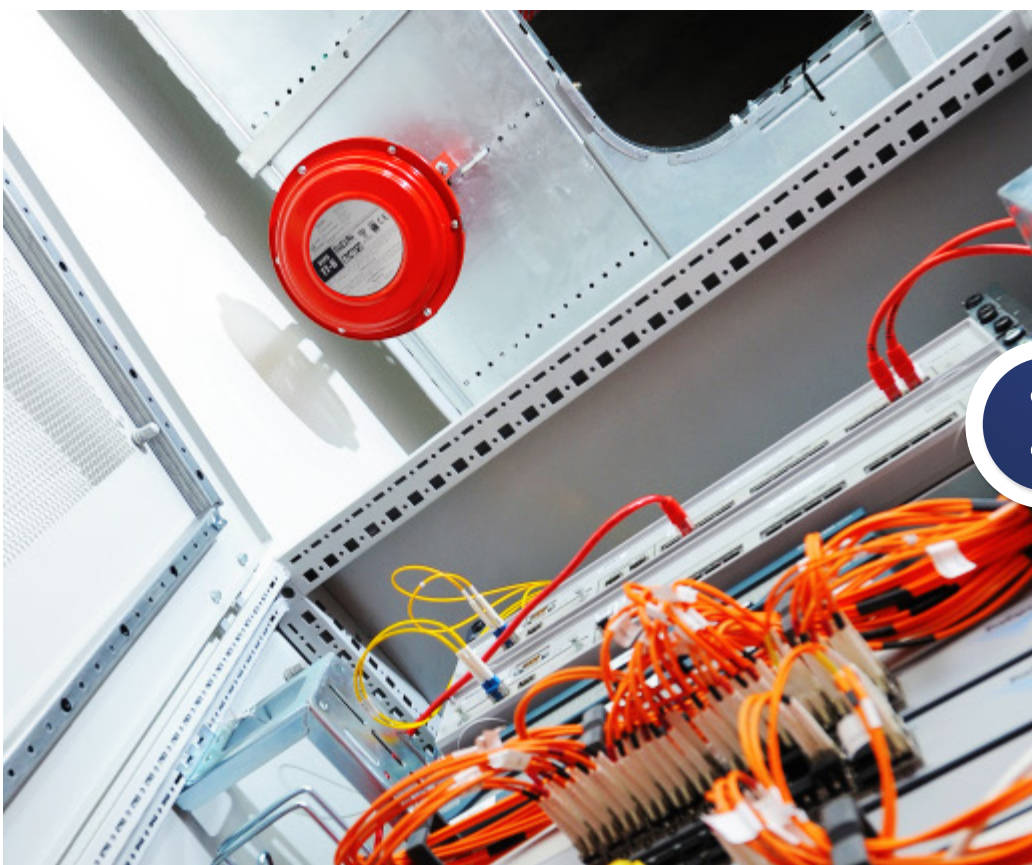


SmodFire

Fire Detection and Suppression System

Advanced solution for fire suppression in substations and electrical systems.

It incorporates compact and durable DSPA aerosol generators with a 15-year lifespan. They are designed to act quickly and safely in environments where gases, powders, or foams are ineffective or pose risks.

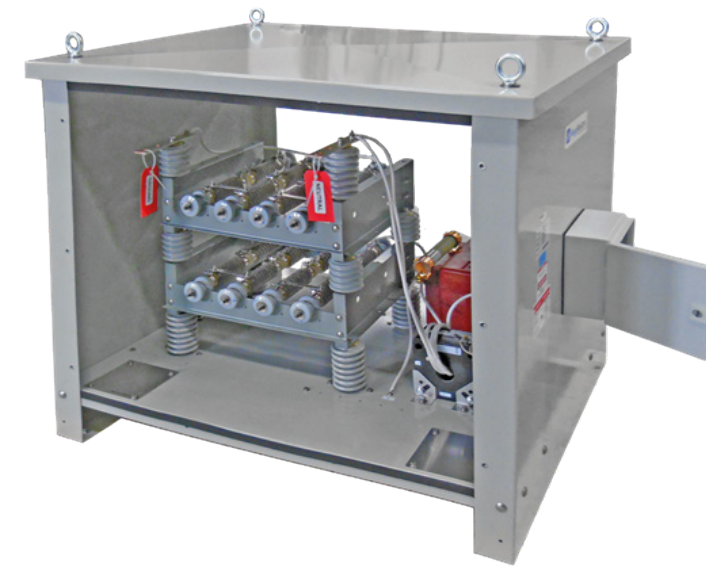




➤ Neutral Grounding Resistors – NGR

They limit the magnitude of ground fault current in an electrical system to protect equipment and personnel.

Low Resistance
Limit from 100 to 1000A



High Resistance
Limit from 5 to 10A



 **MegaResistors**
Your best choice for power resistors

➤ Arc Flash and Ground Fault Relays

AF0100

Generator
Protection



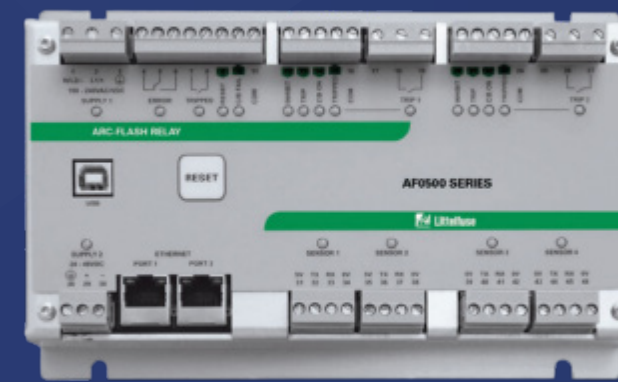
PGR-8800

Switchgear and Panel
ProtectionEléctricos



AF0500

Protection for Switchgear Trains
and Substations Eléctricos



SE-105

Ground Fault
Monitoring



SE-135

Ground Fault
Monitoring



 **Littelfuse®**

➤ Continuous Temperature Monitors

Continuous temperature monitoring to detect hot spots and alert about faults that may affect operation.

Hot Spot Monitor



➤ Voltage Monitors for LV Panels

They allow verification of voltage presence or absence without opening electrical equipment.

ChekVolt Device



Industrial Resistors



MegaResistors
Your best choice for power resistors

 **PanElectric**
cabos elétricos especiais
O QUE NOS CONDUZ É O DESAFIO.



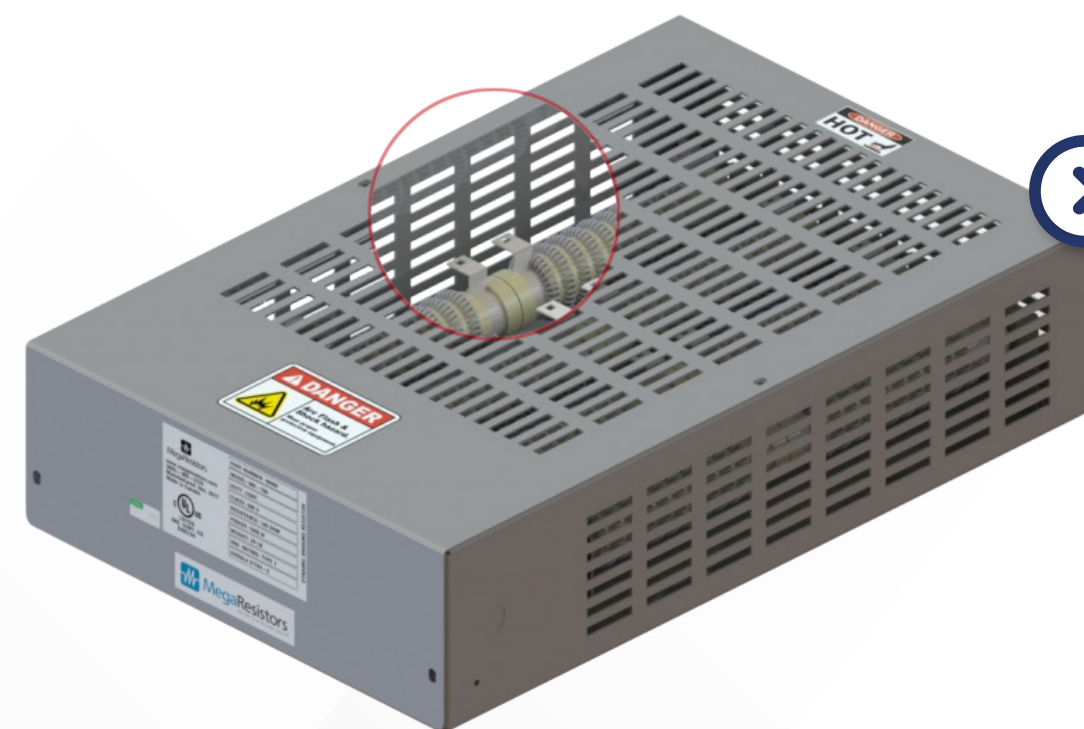
➤ **Discharge Resistors**

Dissipate the energy stored in capacitors or batteries to allow safe maintenance.



➤ **Load Resistors**

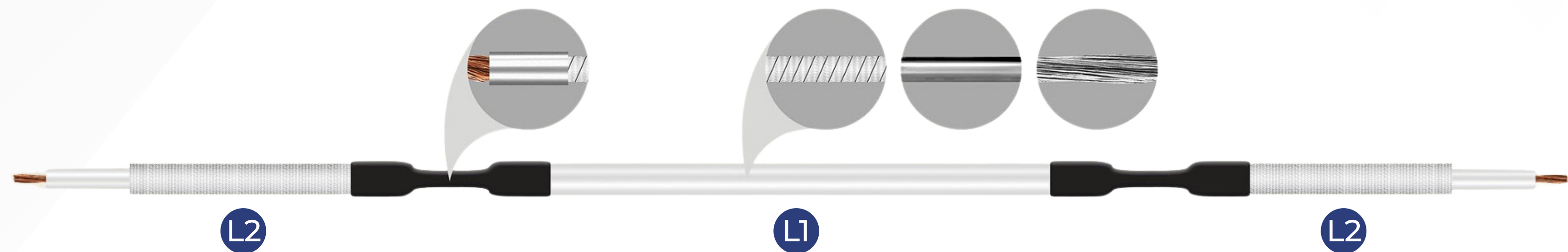
Simulate electrical loads to evaluate the performance, capacity, and stability of electrical systems under controlled conditions.



➤ **Braking Resistors**

Absorb the motor's braking energy and dissipate it as heat to control deceleration in variable frequency drives (VFDs).

Heating Cables



Materials:

L1 Resistor – Hot Section / L2 Connection Cables – Cold Section

Variable power Assembled

They generate heat by electrical resistance to maintain a constant temperature in pipes and equipment, avoiding fluid solidification and allowing optimal system performance.

- ④ Working temperature: up to 300°C, even in humid, acidic and greasy environments.
- ④ Common applications: petrochemical, food and pharmaceutical plants.
- ④ Available voltage: 127V or 220V.
- ④ Flexible installation: on pipes, underfloor heating and

Heavy-Duty Connectors

 **MARECHAL**
ELECTRIC
MARECHAL® TECHNOR® MELTRIC®

Low Voltage Industrial Connectors



Applications:

Production centers: mechanical pumping units, electrosubmersible pumps and power plants.



20A > 63A

DSN
DECONTACTOR™



- ⌚ IP66 / IP67 / IP69
- ⌚ GRP enclosure
- ⌚ Built-in load-break capability
- ⌚ AC-22 and AC-23 ratings
- ⌚ Up to 4 auxiliary/pilot contacts



30A 250A

DS
DECONTACTOR™



- ⌚ IP54/55 (IP66/IP67 from 90A and up)
- ⌚ GRP enclosure up to 150A
- ⌚ Metal enclosure from 90A to 250A
- ⌚ Built-in load-break capability, AC-22 and AC-23 ratings

ATEX Low Voltage Connectors

Applications:

Refineries, dehydration plants, stations, gas plants, workover rigs, and drilling equipment.



20A > 63A
DXN
DECONTACTOR™



- ⚡ Ex II 2 G D Ex db eb IIC, Ex tb IIIC
- ⌚ IP66/IP67
- ⌚ Built-in load-break switch
- ⌚ GRP housing



30A > 200A
DX
DECONTACTOR™

- ⚡ Ex II 2 G D Ex de IIC, tD A21, IP65
- ⌚ Built-in load-break switch
- ⌚ Metal housing
- ⌚ Connection/disconnection interlock

ATEX Low Voltage Connectors

Applications:

Refineries, dehydration plants, stations, gas plants, workover equipment, and drilling rigs.



10A
PXM12C
MULTICONTACTO



10A
DXM25C/37C
MULTICONTACTO



- Ex** Ex II 2 G D Ex e IIC Gb / Ex ia or ib IIC Gb, Ex tb IIIC Db
- ⊙ 12-contact connector
 - ⊙ IP65/IP66 automatic
 - ⊙ T °C: -40 °C / +55 °C
 - ⊙ Zone 1-21, 2-22

- Ex** Ex II 2 G D Ex e IIC Gb / Ex ia or ib IIC Gb, Ex tb IIIC Db
- ⊙ 25/37-contact connector
 - ⊙ IP65/IP66 automatic
 - ⊙ T °C: -40 °C / +55 °C
 - ⊙ Zone 1-21, 2-22

Special lighting

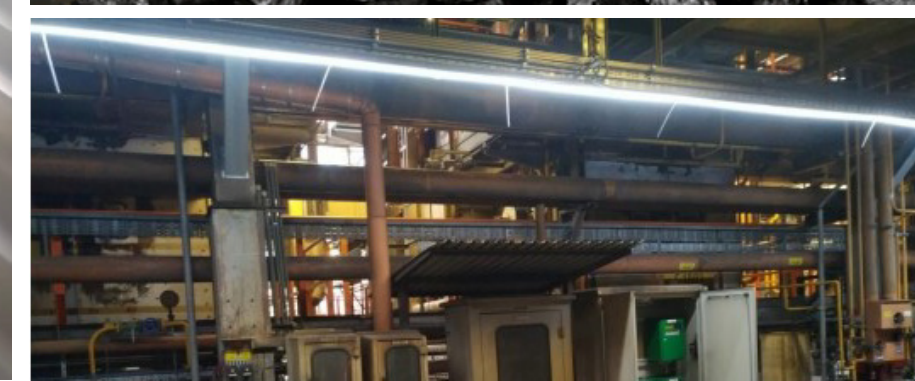
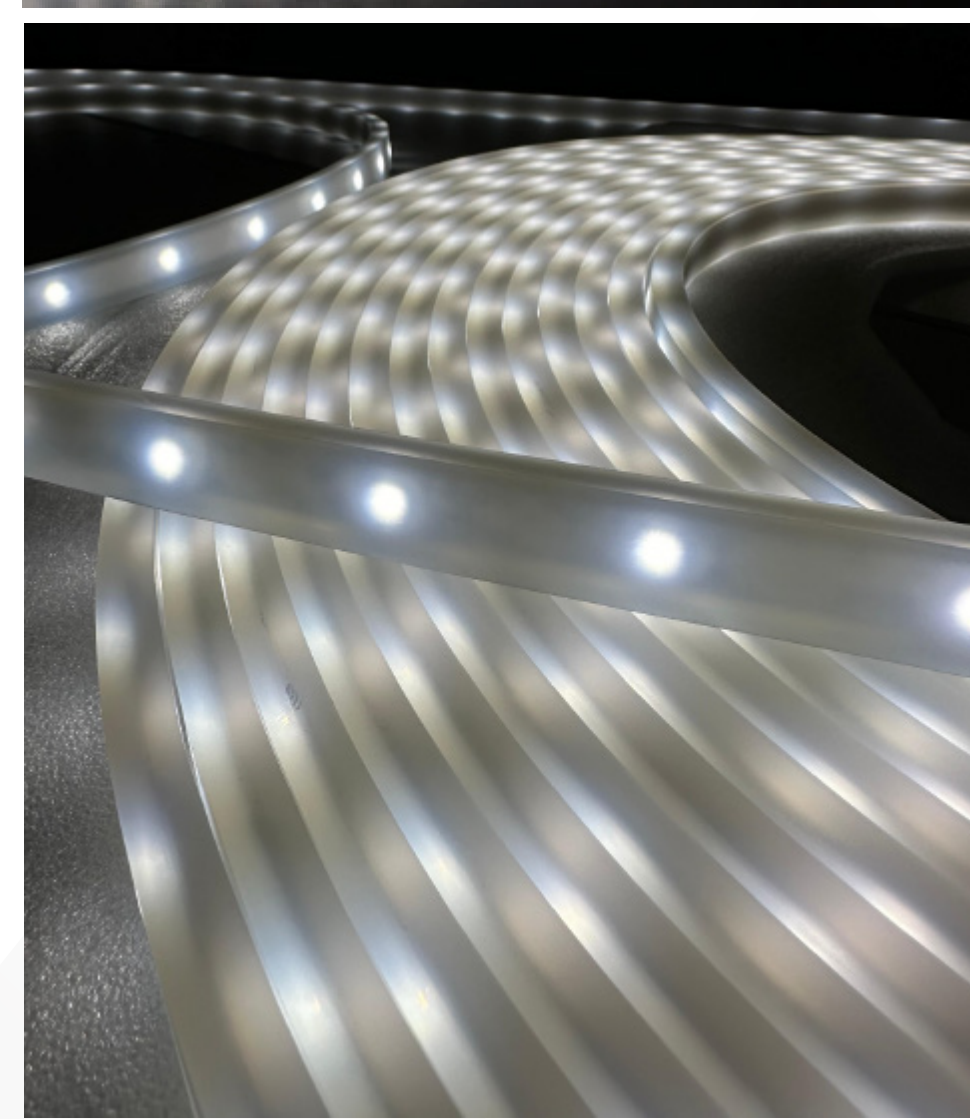
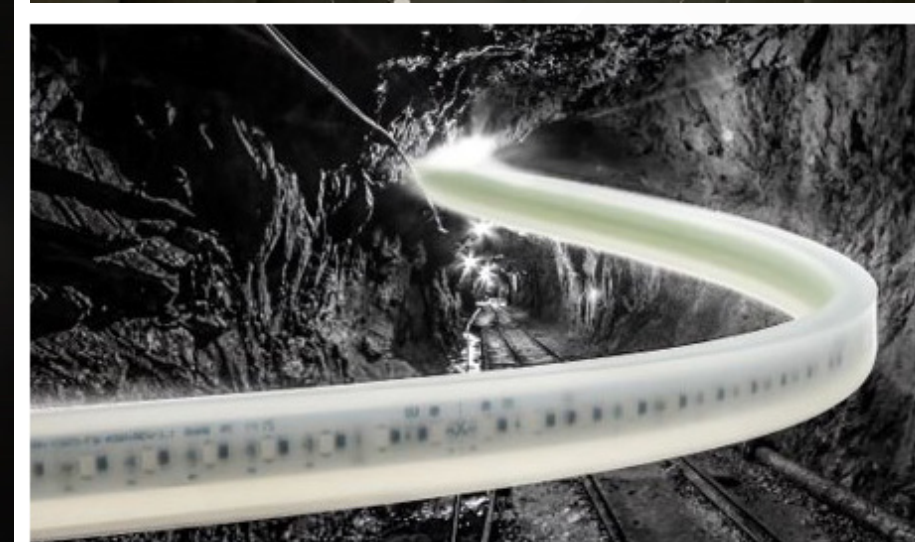
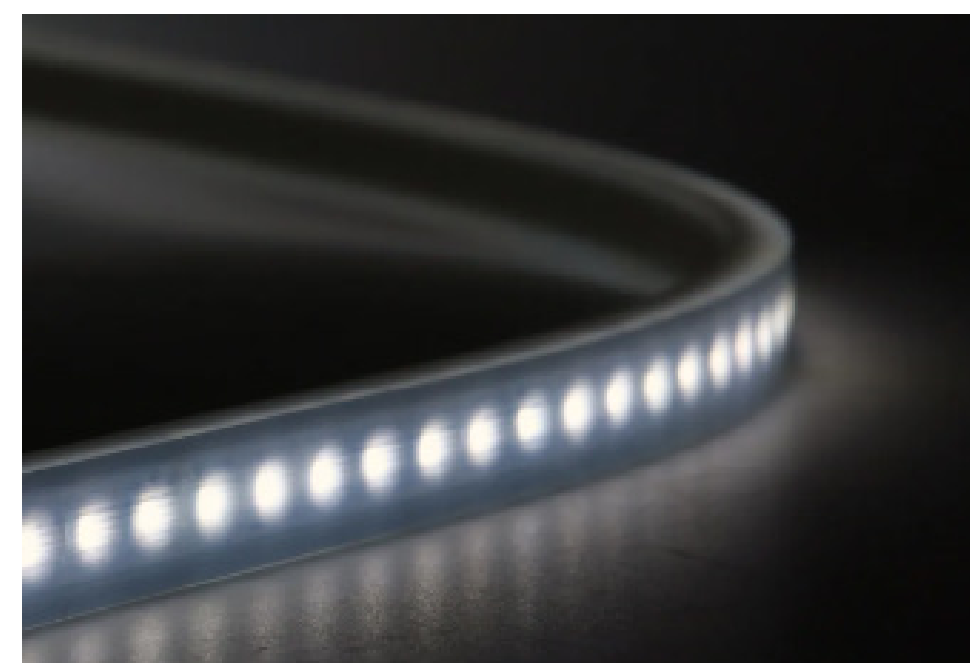
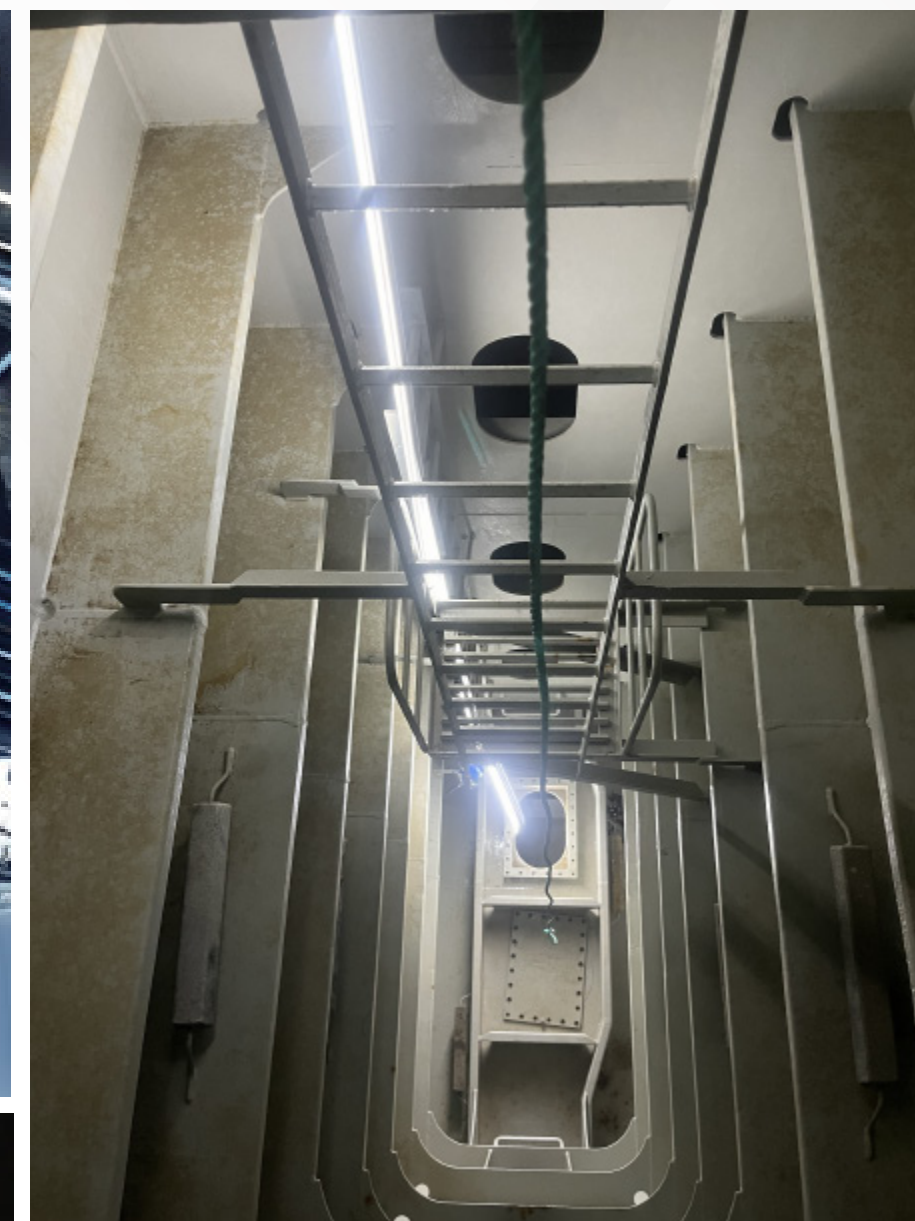


Safe

LED Strips for Classified Areas

Designed to operate in underground and surface areas with explosion risk due to the presence of gas, dust, or fuels.

- ④ High mechanical resistance.
- ④ Maintenance-free.
- ④ Energy efficient.
- ④ Dust and water protection.
- ④ Ultra flexible.
- ④ 5-year warranty and a lifespan of over 50,000 hours.



Contacto



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