



Smart, underground and overhead grids
A reliable and high-performance power line

Low Voltage Network

MICHAUD
Export 

Smart grids

At the heart of energy transition, in the electricity distribution efficiency, smart grids belong with power as the Internet with communication: a major revolution!

PRODUCT RANGE: WE ARE WORKING ON NEW GENERATIONS OF "SMART METER READY" SYSTEMS.

Prepare for meter change-out



Quick replacement & implementation of smart meters



Smart meter ready

Contained cost

Meter board



Quick implementation of new equipment
Universal board for smart meters

The metering board helps to deal with any thermal transfer, insulation and wiring problems stemming from the installation of the new meter.

FOREWORD: SMART, UNDERGROUND AND OVERHEAD GRIDS. THE CHOICE OF A RELIABLE AND HIGH-PERFORMANCE POWER LINE.

In the scope of higher performance of electricity lines, **Michaud Export** promotes power networking by offering a solution at any connection of electricity distribution networks:

- **Prepare** for meter change-out;
- **Read** data through PLC;
- **Connect** underground electricity lines;
- **Gather** connection functions;
- **Connect** overhead electricity lines;
- **Protect** installations against defects...

Engineering & creativeness

Michaud Export's experience

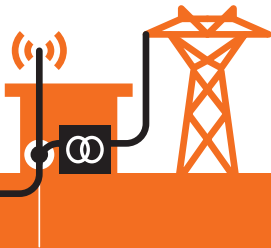
Electricity grids have become smart as to cope with the increase in energy demand.

Today, **Michaud Export** stands by network Operators

in the implementation of smart metering both by offering its expertise in the meter support board with connection and designing even more innovative solutions.

EDF France and **SIBELGA** Belgium are among the major **Michaud** customers.

Such suitable solutions allow an easy installation of the new smart meters on electricity grids.



AMM concentrator

Rapid & simplified setting

Insulated connectors to protect fitters

Read data through PLC



Collect and transmit data from electricity line

Connection kit for AMM concentrator

Such kits facilitate the implementation of AMM (Automatic Meter Management) concentrators in HV/LV substations or on the poles according to network specifications (overhead or underground grids).

2-in-1 connector with 1 fuse to protect the concentrator

Controlled tightening torque for a long-term reliability of the connection thanks to **MICHAUD's** shear head screw

Fast plug-in terminal for communication wiring

Insulation piercing connector for utmost efficiency



Underground grids

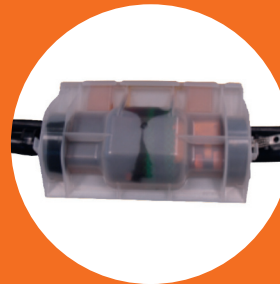
Widely used in urban areas, this technology is greatly expanding in rural places. Notwithstanding higher costs, underground grids generate low impact on the visual environment and offer improved reliability against adverse weather conditions.

TRENDS: IN GERMANY, 88% OF NETWORKS ARE BURIED AND IN CANADA, 50% OF NEW GRIDS ARE UNDERGROUND.

Connect underground electricity lines



Short set-up time and reliability guaranteed by the exclusive design!



IP2X safety:
insulation of the RING at implementation

100% insulation piercing

Easy & secured setting for live wiring

Exclusive concept

Efficiency:
Only 3 elements to make a RING

Fast: only two shear head screws for all connections

Body made of glass fibre reinforced synthetic materials

Reliable and insulated connectors
RING-type multi-tapping underground system

The connector is used in service line tap connection to make underground low voltage networks. It is implemented in cast boxes and allows up to **two connections**.

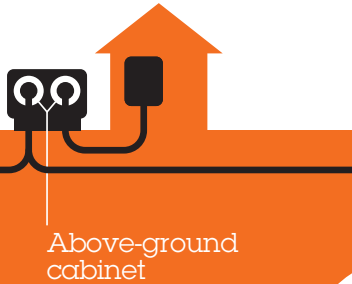
Technical Intelligence

Michaud Export's experience

Today's electricity distribution networks are facing two different requirements: reliability and discretion. As a technical expert of low voltage networks,

Michaud focuses its R&D on developing innovative underground wiring connection solutions and satisfying all application specifications. Above ground connection offers utmost modularity and flexibility. Underground connections

are secured, insulated and trustworthy. These technical solutions have already been favoured by a large number of electricity distribution companies throughout the world (Europe, Africa, Caribbean, Pacific,...).



Gather connection functions



No more electricity poles

Easy intervention & operation

Reduced road works

Better handle above-ground connection

REMIC® Modular Above-Ground system

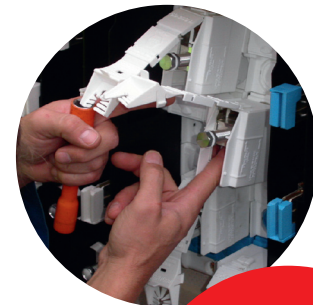
A multi-functional and modern solution to handle underground low voltage network above-ground connections.

The **REMIC®** cabinet protects and connects above-ground electricity networks and service lines.

3-in-1 cost-convenient solution in 1 single cabinet (cutoff, protection and connection)

200 A protection
400 A cutoff

From 10 mm² to 240 mm² connection



IP2X Safety: fully insulated busbar for fitter's 100% protection at implementation

Wide front opening for a quick assembly and disassembly



Overhead grids

Electricity grids based on ABC lines (Aerial Bundled Conductor) are on average 3 times cheaper than underground technology. Easy to implement, such grids provide good resistance to climatic variations (floods, ...).

FACTS: 10-TIMES SHORTER INTERVENTION ON OVERHEAD ENERGY NETWORKS.

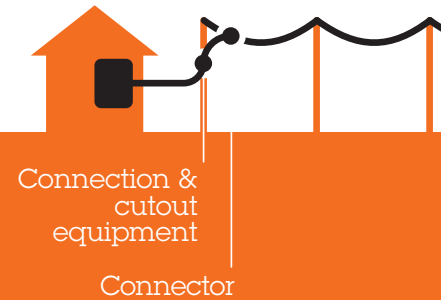
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Connect overhead electricity lines



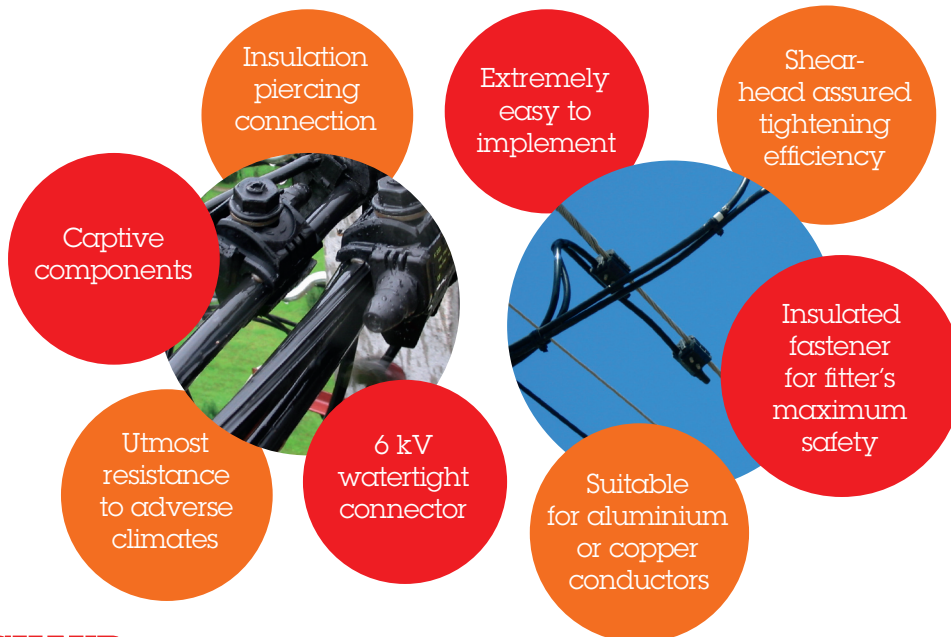
Quality + reliability = medium-run savings

Michaud's 30-years experience



Design time resistant and reliable electricity grids
Insulation piercing connector

The connector is used to make insulated connections from insulated or bare energy networks.



Economic strategy

Michaud Export's experience

80% of technical incidents on electricity grids are tied up to corrupted connectors. These elements merely represent 2% of total cost, while substantial gains

in terms of maintenance are to be considered. Through its utmost know-how level, **Michaud** assures high performance and long-term stability for an optimum energy distribution network quality.

Since 1980, overhead low voltage connectors have been **Michaud's** core business. Renowned electricity companies, among which **AUSGRID** in Australia, **EDM** in Mali, **CEZ & E-ON** in Bulgaria, **VIKEN ENERGYNETT** in Norway, have opted for our **cost-efficient quality**.

Three-phased fuse switch disconnecter



Protection at the focus of efficient electricity grids
Fuse switch disconnecter & cutout sleeve

This cutout equipment can be fixed on top of the pole or façade and helps to protect low voltage grids or service lines.



Cost-convenient alternative for connection or network protection

Protect installations against defects



Easy & fast implementation

For DIN 00 fuses or cutoff blades

Contained costs: cost-convenient alternative to Pole-Mounted LV Circuit Breaker, which ensures downstream cutoff/protection of a 50, 100 or 160 kVA power transformer

Up to 160 A protection & 240 A cutoff

Weather and UV-resistant

Insulation piercing connection





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Operating worldwide in the energy domain, **Michaud Export** designs, develops and implements a complete range of reliable systems for electrical installations with contained maintenance on distribution lines.

As the architect of your solution, the company focuses on on-going innovation and leverages on the worldwide renowned expertise of the 250 employees at **Michaud Group**, leader in the industry for systems and connection fittings for electrical installations.

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