

**BRUGG**



# History.

- 1896** Gottlieb Suhner opens a cable factory in Brugg.
- 1908** Conversion to a limited company named Kabelwerke Brugg AG.
- 1989** Creation of Kabelwerke Brugg AG Holding.
- 1991** Operating divisions become independent legal entities.
- 2001** Brugg Kabel AG and Brugg Telecom AG become

# Corporate Objectives.

- **We are a financially independent, industrial group of companies, focusing on cable systems, piping systems, process control systems and rope technology.**
- **For these core activities, we aim to be the leader in selected markets.**
- **We take a long term view: continuity takes precedence over quick profits.**
- **We try to strike the right balance in satisfying the needs of our customers, our staff and the environment.**

# Key Data.

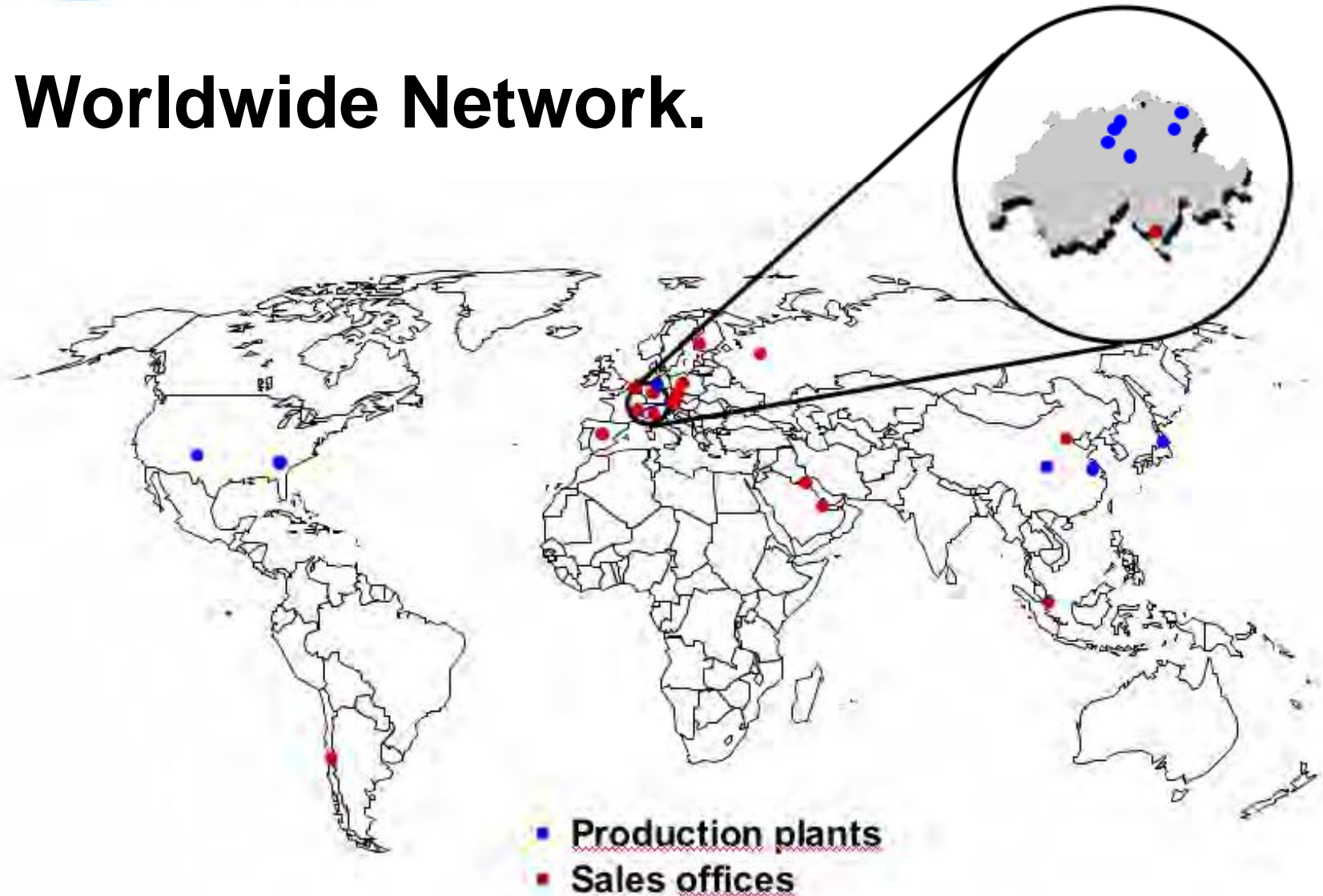
- **Shareholders:**
  - Privately owned; controlled by Suhner, Wartmann and Merker families.
  - Stock not publicly traded.
- **Sales in 2005: CHF 430 Mio (USD 350 Mio).**
- **Employees: 1'374.**

# Headquarters.



**View of the administration and production buildings in the town of Brugg, 30 km west of Zurich.**

# Worldwide Network.





# Divisions.



Rope Technology



Piping Systems



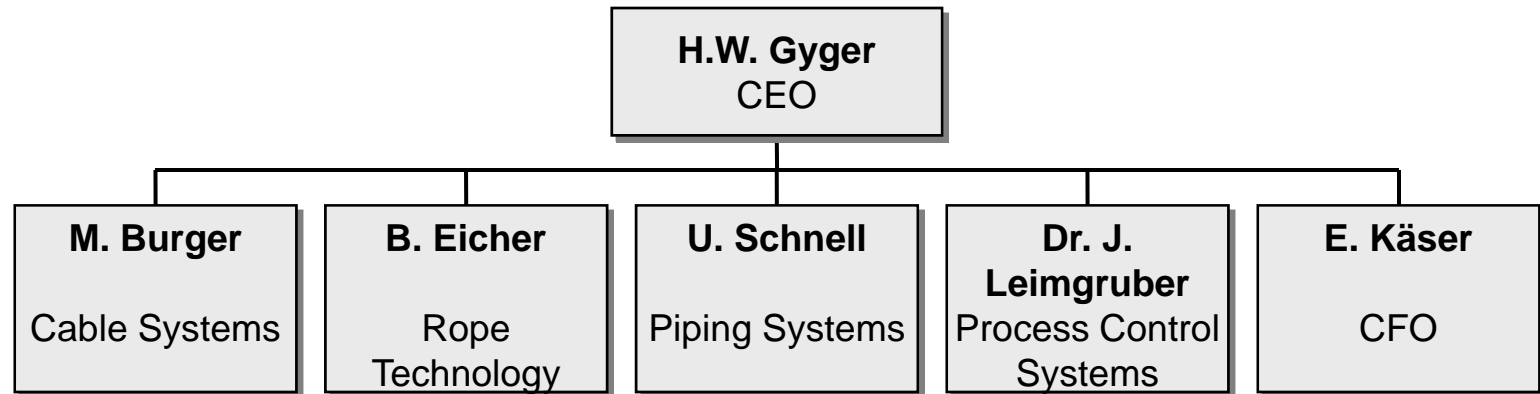
Process Control Systems



Cable Systems

# Group Management.

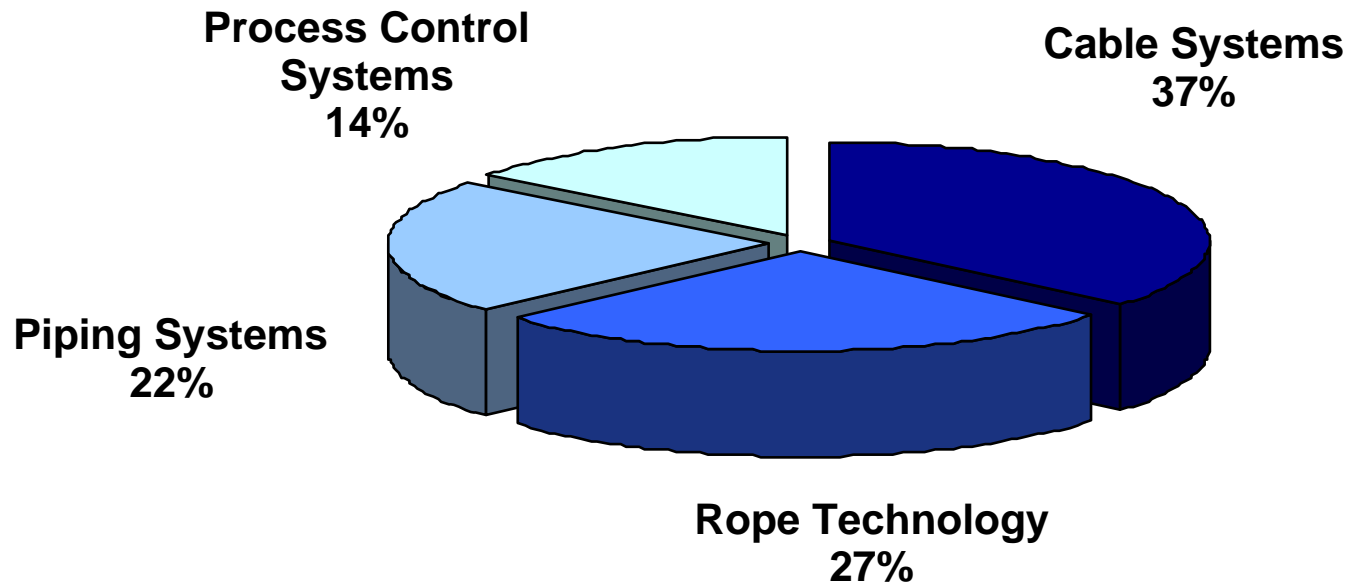
**Kabelwerke Brugg AG Holding.**  
**Chairman of the Board: Otto H. Suhner.**





# Sales per Division.

- Sales in 2005: CHF 430 Mio (USD 350 Mio).

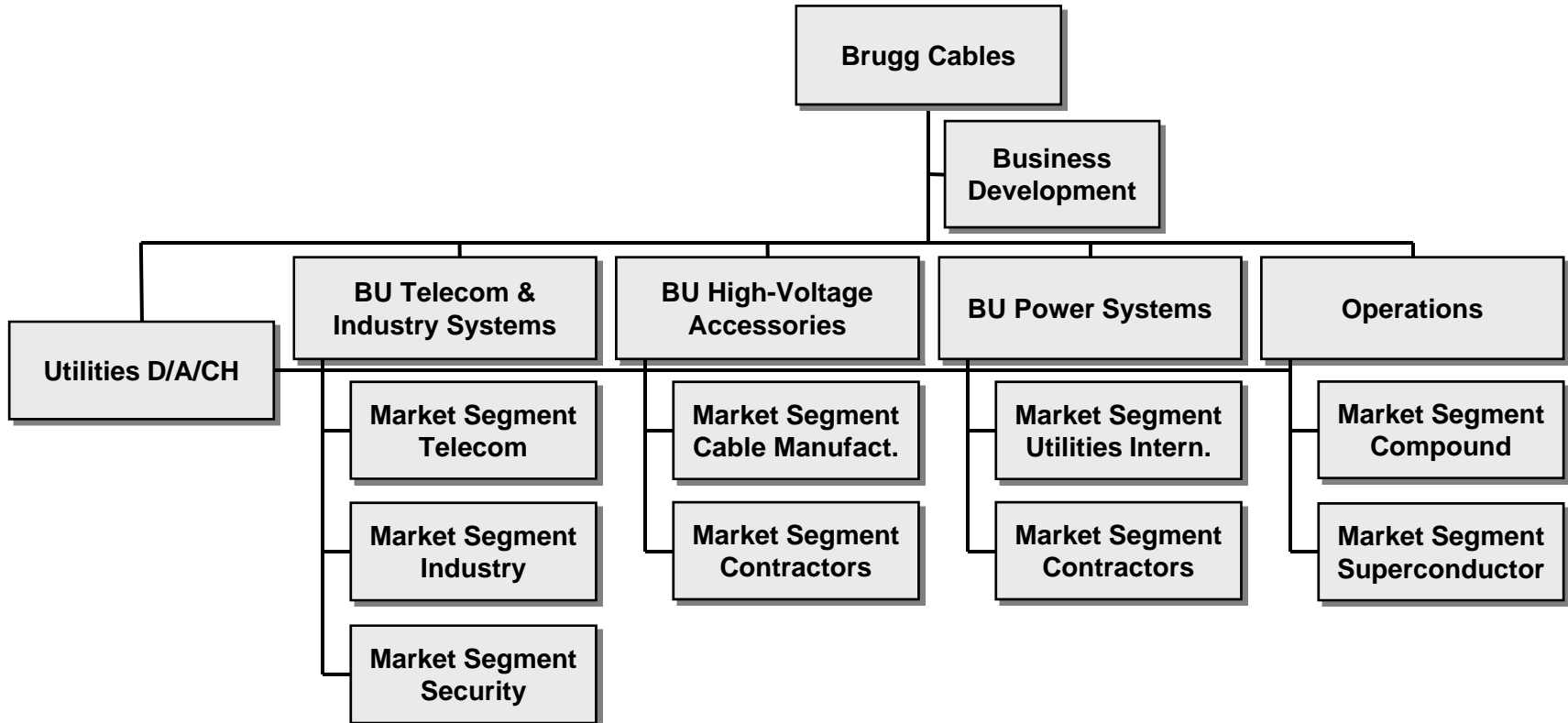


**BRUGG**

**CABLES**

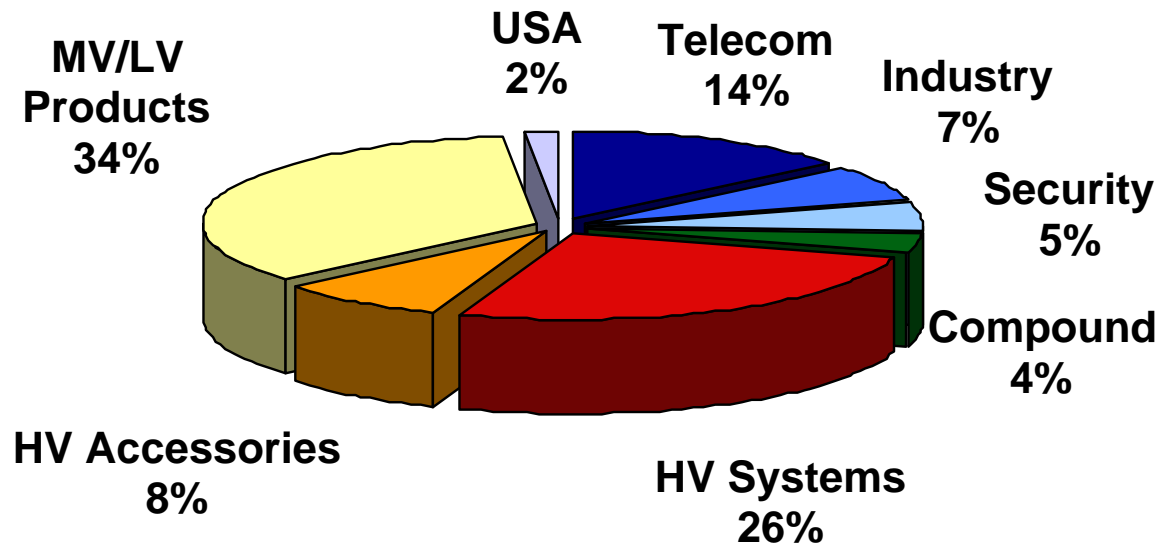
**Well connected.**

# Market-Oriented Organization.



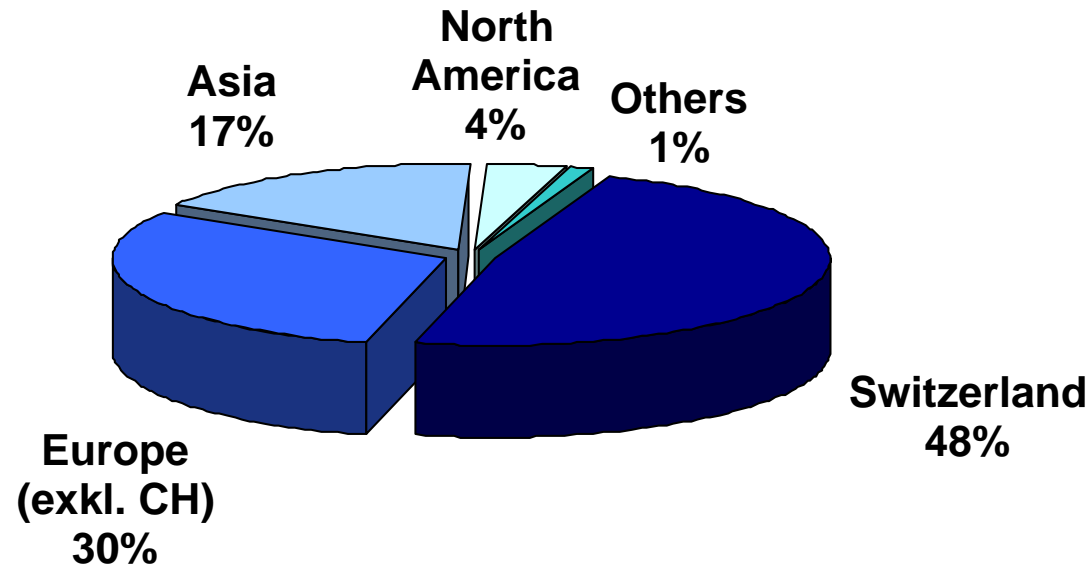
# Sales per Product Segments.

- Sales in 2005: CHF 156 Mio (USD 127 Mio).



# Sales per Markets.

- Sales in 2005: CHF 156 Mio (USD 127 Mio).





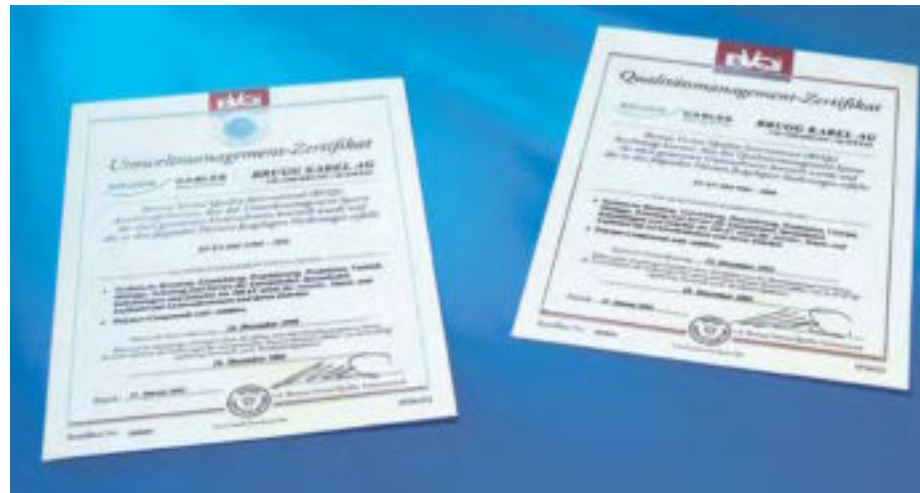


# Employees: 496 (January 1, 2006).



# Certifications.

- **Quality Management Certificate  
SN EN ISO 9001 : 2000 since 1995**
- **Environmental Management Certificate  
SN EN ISO 14001 : 1996 since 1998**



# Competencies.

- **Single-source customized system solutions.**
- **Consulting and engineering.**
- **Deployment and installation.**
- **In-house test laboratories and type test facilities.**
- **Site tests and commissioning.**
- **Turn - Key projects.**
- **24 hour customer support.**
- **Training and certification of customer's assembling staff.**

# Product Segments of Brugg Cables.



HV Systems



HV Accessories



MV/LV Products



Telecom



Industry



Security & Defence



Compound

# Product Segment Telecom.



**For example ...**  
**... sensor cables**  
**for underwater oil**  
**exploration.**

# Telecom.

- **FO cables.**

Fiber optic cables for a wide range of applications, with up to 432 fibres.



- **Metallic FO ropes.**

OPGW, submarine cable, robust mini FO cables.



- **Sensor cables.**

FO sensor cable for customer-specific solutions in measuring temperature, pressure, acoustics, vibrations, etc.





# Telecom.

- **Copper and FO cable assembly.**

Plugs for LAN and security use are produced and connected in our own manufacturing department.



- **Accessories.**

A broad range of compatible accessories for copper and passive FO cable applications.



# Product Segment Industry.



**For example ...**

**... cables for lighting  
of salmon farms.**

# Industry.

- **PURWIL® orange.**  
Since 20 years THE PUR-cable.
- **PURWIL® EMV.**  
Protection from electromagnetic radiation.
- **WILBAFLEX® EMV.**  
Halogene free and flame retardant.
- **FAWIL®.**  
Low voltage aerial cable.



# Industry.

- **Copper and FO cable assembly.**

Plugs for LAN, industry and security use are produced and connected in our own manufacturing department.



- **Hybrid cables.**

Whether combined fiber optic, control or energy cables, Brugg Cables manufactures to customers requirements.



# Product Segment Security & Defence.



**For example ...  
... cables for  
applications under  
harsh conditions.**

# Security & Defence.

- **FO cables.**

Durable and flexible cables for special requirements under extreme harsh conditions.

- **FO connectors.**

Connectors designed to suit every application.





# Security & Defence.

- **BRUGG MILLE.**

The system solutions for tactical field use of FO cables.

- **Cable based solutions.**

Interoperability between different medias and compatibility between different transmission standards. Integration of mobile IP network material in robust cases.



# Product Segment High-Voltage Systems.



**For example ...**

**... cable systems for power distribution.**

# HV Systems.

- **XLPE cables.**

Voltages 72.5 kV - 550 kV.  
Conductor cross-sections up to 2500 mm<sup>2</sup>.



- **LPOF cables.**

Voltages 72.5 kV - 420 kV.  
Conductor cross-sections up to 2000 mm<sup>2</sup>.



# HV Systems.

- **Complete cable installations.**

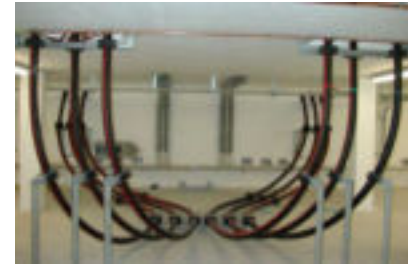
Engineering.

Contracting.

Project management.

Installation.

Commissioning.



# Product Segment High-Voltage Accessories.



**For example ...  
... terminations  
for high-voltage  
systems.**

# HV Accessories.

- **Complete accessories.**

to all XLPE cables from 72.5 kV to 550 kV  
irrespective of the manufacturer.



- **Complete accessories.**

to all LPOF cables from 72.5 kV to 420 kV  
irrespective of the manufacturer.

# Product Segment Medium/Low Voltage Products.



**For example ...  
... wiring for snow  
guns.**

# MV/LV Products.

- **Low voltage cables.**

Conductor made of copper or aluminum.  
Cross-section from 6 mm<sup>2</sup> up to 630 mm<sup>2</sup>.  
Single core, triple core, four core or five core.



- **Medium voltage cables.**

Conductor made of copper or aluminum.  
Isolation made of EPR or XLPE.  
Outer sheath made of PE, PVC or Megolon.





# MV/LV Products.

- **Accessories.**

Sealing ends.

Cable joints.

Surge arresters.

Shrink materials.

Cable anchoring accessories.

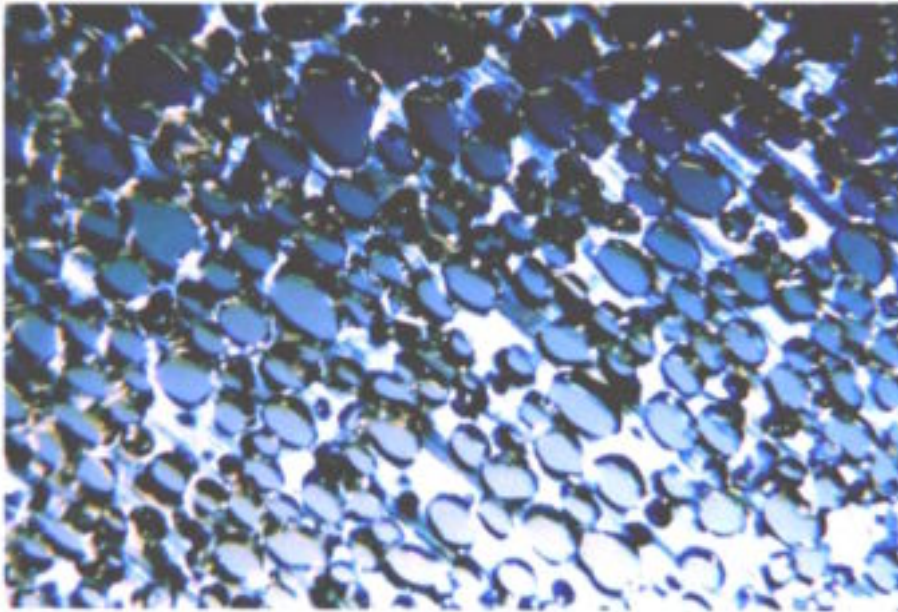
Laying and suspension systems.

Sealing and grounding materials.

Tools and tool-kits.



# Product Segment Compound.



**For example ...**  
**... EPDM-cable**  
**compounds for**  
**extreme**  
**requirements.**

# Compound.

- **COMCROSS®.**

Peroxide crosslinking insulation compounds for CV-lines based on EPDM.



- **COMADD®.**

COMADD® master batches based on foamed carriers loaded with liquids.

