Kabeldon
Low Voltage Solutions
Kabeldon IP-system
Kabeldon LV distribution solutions

Products for distribution networks - from substations to subscribers in urban and rural network.

Applications

- Cable distribution cabinets (CDC).
- Low voltage switchgear for substations.
- Distribution boards for industry etc. and distribution boards with metering option.
- Outdoor enclosures for a variety of applications.

Customers

- Network companies, Contractors, Utilities, Electrical installers, Electrical consultants, Industry, OEM: e.g. substation manufacturers and panel builders.
Kabeldon LV distribution solutions

- Cable distribution cabinets
- In substation distribution boards
- Distribution boards
- Outdoor enclosures
A complete safe solution – IP2x system
From power plant to end user

Transmission and distribution system

- High voltage 130 kV
- Regional station
- Medium voltage 12/24 kV
- Substation
- Low voltage 400 V
- Cable Distribution Cabinets
- Feeder cables
- Service cables
Low voltage to the house where we live
Kabeldon Cable Distribution Cabinets
Kabeldon Cable Distribution Cabinets

- A full range of cable distribution cabinets, well proven and well known.
  - Ground mounted.
  - Pole mounted.
  - With metering section.
- Hot-dip galvanized enclosures for long life and durability.
- **Kabeldon IP-system** inside.
  - Busbars with rated currents from 400 – 1600 A.
  - Switching devices 63 – 1600 A DII size fuses and MCCB
- All components designed as part of a modular system for easier planning.
Kabeldon in Substation Distribution Boards

ABB Kabeldon supply busbars and apparatus to switchboard producers.
Kabeldon in Substations Distribution Boards

- **Kabeldon IP-system** inside.
  - Busbars with rated currents from 400 – 1600 A.
  - Switching devices 63 – 1600 A DIN size fuses and MCCB.
- All components designed as part of a modular system for easier planning.
- Low EMF.
- Possible to mount directly on wall.
- All **Kabeldon IP-system** features
  - Insulated and personal safe.
  - Possible to mount apparatus under voltage.
Kabeldon standard in many SDBs
EMF comparison measurements

1-fas 3m /400A. AEG / HOLTAB standard / HOLTAB EMF

3-fas 3m /1200A. AEG / HOLTAB standard / HOLTAB EMF

- Other type
- HOLTAB standard
- HOLTAB EMF-reduced
Kabeldon for Substations retrofit

- Kabeldon IP-system on the wall
- Cost- and time saving
- Safe
Padmounts on Iceland
Kabeldon in New compact substations
Kabeldon Distribution Boards solutions

- Infrastructure
- Industry
- And many many more......
Kabeldon Distribution Boards - modern and safe

- **Kabeldon IP-system** inside.
  - Busbars with rated currents from 400 – 1600 A.
  - Switching devices 63 – 1600 A available for diazed and DIN fuses.
- When used outdoor - Hot-dip galvanized enclosures for long life and durability.
- All components designed as part of a modular system for easier planning.
- Space saving.
- Wide range of applications.
- Proven.
Kabeldon IP-system – for your safety

- Complete system IP2x
- Insulated and Personal safe
- Easy to extend – under voltage
- Low EMF
- Mount apparatus - and it is connected!
- Can be used in many types of distributions
- To be used with wide range of switching devices
- Can be mounted in different enclosures

Modular system – 1M = 12.5 mm
Rated currents 400 – 1600A
Mounting apparatus under voltage – no problem!
Kabeldon outdoor enclosures – multi purpose

For Telecom etc etc…
Estonia – in substation

- Made in Harju Elekter
- KSS in Saaremaa, Eesti Energia
- Article
Estonia – street lighting

- ABB Elekter
- SDC+components
- for Rigas Gaisma (Rigas street lighting) radiolinked board
Kabeldon CDC in Riga
Latvia – substation retrofit

- IP- system on wall, SS reconstruction
- Vainode SS, Latvenergo
Latvia - in substation

- Kabeldon IP-system in KSS
- Kiosk made in Skien, LV part assembled locally
- Western El.Net., Latvenergo
Latvia – in local cabinet

- Kabeldon IP-system in Jauda's cabinets
- Leaflet
Jauda stand on Riga exhibition week 419
On Jauda’s website

Zemsprīeguma sadales panelī (ZSP)

Energo firma izgatavo zemsprīeguma sadales panelis saskārā ar pasūtītāju šādām un izvirzītajām prasībām. Izgatavojamā panelu nomināla strāva līdz 3150A. Patērētāju elektroapgādes drošības palīcināšanai piedāvājam automātiskās rezerves levāda sistēmu, kā arī citu automātiskās tīkla kontroles sistēmu uzstādīšanu. Energo firma "JAUDA" praktizē arī apakšstādiju un KTP (kompakto transformatoru punktu) zemsprīeguma sadales panelu restaurācijan un modernizāciju. Ir gādījumi, kad šīs sadales ģerbo no jauna, jo nav lēpšajama restaurācijā. Pastāstī to nepieciešams, ja ļaujot līdzino atgošanas līnijas vai arī ļaujot to ģerbinā tās. Atsevišķos gadījumos rodas specifiskas prasības, un tie tādus speciālistu izstrādes klienta vajadzībām pielāgotāko risinājumu.

Telefons uzzinām un konsultējam - 7125750.
Lithuania – outdoor distribution board

- Kabeldon SDC
- Military plant - bullet facory
- Sold by Elektroskandia in Kaunas
The Netherlands – in substation

- Essent
  - Mr Schots – Inspector
- Build by Op het Veld
The Netherlands – for industry

- Elbar bv - 2500A
England – connecting networks

- Link box – 2-way
- Western Power
England – connecting networks

- Western Power
- Cornwall
  - Barnstable
- Link box
  - 4-way
England – outdoor distribution board

- Jointing Technology
  - Bristol
- LV Distribution Board
  - Outside school
Blackpool Council – Promenade lighting
Netherlands – compact transformer station

Distribution Board 1000Amp
Netherlands – compact transformer station
Kabeldon distribution board in industry

Kabeldon Distribution Board 1600Amp
Kabeldon IP-system in city- lighting panel

Standard cabinet City of Delft
ESB, Ireland, approval for street lighting

National Code of practice
– Update August 2004

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Public Lighting
Combined Networks/Customer Pillar
Three Phase/Single phase (Metered)

Dimensions:
800mm wide x 1500mm high x 220mm deep

Minimum open size:
618mm wide x 570mm high x 220 deep
for Networks equipment
600mm Minimum to bottom of meter

NOTES:
1. Hinged door for access to Networks equipment
2. Steel trunking (sealants) for Networks cable

Equipment shown:
ESB Three Phase Cut Out
ESB Three Phase Meter
ESB Three Phase Isolator

• Warning label “Live electricity” required on doors.
• Bom triangular locks required on doors.
• Fire retardant back plate.
• Enclosure should have no sharp edges.

2004 Update 1.1
Railway Station – outdoor distribution board
Marina Dalarö, Sweden
Kabeldon IP-system. The modern way

Safe
Simple
Flexible
Proven
Safe

- IP 2x - means that you easily can connect new outgoing groups without disconnecting the whole system.
- Easy to operate the system in a safe way.
- Fuse holders are removed when fuses are to be exchanged – no risk for electric shock.
Simple

- Kabeldon IP-system can easily be increased.
- Spare switching devices is not needed – just leave free space on the busbar.
- Switching devices are mounted and connected in the same moment.
- Cable clamps are integrated in the switching devices.
- Compact, a minimum of space is needed for installation.

- Saves money and saves space
Flexible

- You can easily increase a Kabeldon IP-system that is under operation.
- You may without any problem mix switching devices that are in different sizes.
- Kabeldon IP-system can be placed anywhere, indoors as well as outdoors.

You only need one type of distribution board which Saves money
Proven

- Kabeldon IP-system is well-tried since over 20 years of successful installations
- About 650,000 installations already made
Kabeldon Connect IT – software for planning
Kabeldon low voltage products with Kabeldon IP-system for you!
With ABB Kabeldon -

For your safe future!