POWER
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Cable solutions for data centre electrification

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Comprehensive cable solutions for data centre electrification

Reka Cables' solutions for data centres

Digitalisation and digital dependency are constantly increasing. Data centres have become crucial for a smart and functional modern society.

With the continuing growth of data usage worldwide, data centers need to be secured with an uninterrupted energy supply. The reliability must be guaranteed every day of the year.

To minimise risks, fire safety is extremely important. In a case of fire, it is vital that power cables have low smoke density and do not spread fire when installed in a bundle.

Data centres' standards place high demands on the quality and characteristics of the cables, when used on the site. We offer a broad portfolio of high-quality and environmentally friendly cable solutions for data centres electrification. By testing our products in our own testing laboratories, we guarantee outstanding product quality and durability. The quality of our cables helps to ensure the reliability, safety, and longevity of the data centres.

We take into account the welfare of the environment in everything we do. In production, our aim is to increase energy efficiency and develop products that have the least impact on the environment. All our cables are manufactured in Finland using completely emission-free, CO_2-free electricity.

Halogen-free flame-retardant cables for a large data centre project

Reka Cables was asked for a tender for a large-scale project in 2018. The project was a major data centre located in Finland, for which Reka's partner and a contractor needed a skilled cable supplier.

- It was easy to start the co-operation, as the contractor was already familiar from other projects, says Sirpa Pötry, Reka's Area Export Manager.

Suitable cables for the project were chosen together with the electrical contractor from Reka's wide range of products. The cabling began in January 2020, when the end customer had approved the plan.

The Halogen-free flame-retardant cables were selected for the data centre project, which Reka delivered hundreds of kilometres to the site.

According to the Area Export Manager, due to the extraordinary site, halogen free cables were a clear choice from the beginning, because halogen-free flame-retardant cables have low smoke density and do not spread fire when installed in a bundle. In addition of official CPR tests Reka has a possibility to test the cables in its own fire testing laboratory, where it can verify that the cables meet the latest CPR classification requirements.

That will guarantee that Reka's cables are both high-quality and very safe.

- Data center is a place where uninterrupted power supply and fire safety are especially important. Always when there is a big construction site and there are a lot of contact persons, you need to be awake, Pötry says.

In this case being awake meant extreme accuracy in the documentation, quick response to changing situations, and technical knowledge of the subject.

The data center project was completed during the spring 2021.

Succeeded co-operation

Although the project was challenging, Reka performed excellently. Reka's fast and professional service and technical knowledge was praised by contractor. The same statement is signed by Reka's Area Export Manager.

- The high standard level of the data centre project corresponds well to Reka's expertise. We are very precise and prepared for rapid changes. Thanks to our wide product range, we can deliver all cables, from installation cables to high-voltage cables.

Cutting-edge cable production

We offer a wide range of high-quality cables for our customers. Our voltage range extends from 75 V signal cables to 170 kV high voltage cables. Our products are developed in our research and development departments and tested in our own testing laboratories to ensure quality and durability.

With our customer-first orientation, we offer the best customer service and technical support to ensure that doing business with Reka is easy, and that each customer is provided with a suitable cable solution. We invest in installer-friendliness. Our cables easy to handle and strip making installations quick and ergonomic.

By working closely with the customer, we can ensure on-time deliveries, excellent installation properties and long-lasting products.

Apart from fire-resistant cables, all cables used in data centres must be halogen-free and have a CPR classification of at least Dca. The materials used in halogen-free cables are easily recyclable and do not contain PVC plastic.

These cables generate only a small amount of smoke, and they do not spread fire individually or in bundles.

The Key Flag is a sign of Finnish work. The symbol can be awarded to a product that has been made in Finland.

All our production plants are located in Finland, using only green energy for production needs.

REKA'S COMPREHENSIVE PRODUCT PORTFOLIO

Reka R

Power cables
Reka R copper power cables have excellent installation properties and have a long service life.

DryRex

Medium-voltage cables
DryRex medium-voltage cables are plastic cables insulated using cross-linked polyethylene (XLPE), representing first-class insulation technology.

Reka R

Control and instrumentation cables
Halogen-free Reka R control and instrumentation cables are flame-retardant and easy to install.

LiteRex

Installationcables & wires
Reka R & LiteRex installation cables and wires are easy to handle, peel and bend.

FlameRex

Fire-resistant cables
FlameRex fire-resistant cables are suitable for applications where power supply needs to be secured, also during a fire. They are halogen-free, and do not spread fires when used in a bundle.

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Reka Cables has been at the forefront of the Finnish cable industry for more than half a century. We provide high-standard cable solutions for the purposes of construction, industry, energy distribution and sustainable energy production.

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