

AWARD-WINNING MOSCOW SKYSCRAPER



When one of the leaders in the Russian oil industry wanted to bring together their headquarters staff from disparate offices into one ergonomic centre, they purchased a state-of-the-art building in the Moscow International Business Centre.

Inspired by Rodin's The Kiss, Tatlin's Tower and St. Basil's Cathedral, the building's design reflects their sculptural forms with a noticeable twist. With each floor offset by 3 degrees around the central core. Evolution Tower's final form is an elegant clockwise rotation from base to top of around 135 degrees. All of which provides around 80,000m² of office space over 55 floors, with 3 floors below ground.

THE CHALLENGE

The new organization wanted to seize the opportunity to maximise the benefits of the building by making it as smart as possible, with a consolidated infrastructure supporting systems such as HVAC (heating, ventilation and air-conditioning), room scheduling, access, surveillance, fire alarms and car parking, as well as serving the data centre and enabling PoE (Power over Ethernet) for IP telephony.

Because of the complexities of relocating their workforce and the enormity of the project, the timescales were extremely demanding. Other challenges included the fact that the data centre space was comparatively small, requiring a dense cabling solution.

CUSTOMER PROFILE

COMPANY

Moscow International Business Centre, Russia

INDUSTRY

Commerce

PRODUCT NAME

Molex Cat 5E, 6, 6A, Molex fiber, PoE, Extreme Density panels,

SOLUTION FEATURES

Molex's PowerCat solutions have been developed with the highest performing capabilities in mind, with improved data transmission over higher frequencies and enhanced noise suppression. Molex Cat 6 cable offers enhanced alien crosstalk characteristics, allowing 10GBASE-T to be run for the same 100 meter maximum distance.

THE SOLUTION

The Systems Integrator – Iteco – drew up a short-list of cabling candidates, including Molex, CommScope and Panduit. Molex was chosen to undertake the pilot project, equipping one floor, as its manufacturing facility in Poland could supply the products in the required timescales, because its products delivered quality and affordability, and finally due to the strong track record of working with Iteco on past projects.

The successful completion of the pilot phase saw Molex selected as the supplier for the balance of the 55-storey infrastructure install.

The Molex-enabled infrastructure involves Cat 5E, 6, and 6A cabling totalling 1,500km with around 17,000 ports. Plus over 100km of fiber connectivity. This huge project at times saw more than 150 engineers working simultaneously over the 18-month install.

The challenges inherent in the size of the data centre were met with Molex's Extreme Density Solution.

THE BENEFITS

The oil giant is already reaping the obvious benefits of a far more integrated workforce, who can now communicate much more quickly and effectively in one ergonomic building, either face-to-face or via the latest messaging, meeting and conferencing facilities. This enhancement in turn delivers greater productivity, better and faster decision-making and a far happier and more harmonious workforce.

Another example of new benefits is the car parking system, which offers great convenience for its users by displaying green or red lights above the respectively vacant or occupied spaces.

The company appreciates the benefits of its new infrastructure and continues to enhance it, ordering more parts on a regular basis to capitalise on its potential and extend its effectiveness.

Mark Bondarev, Molex Regional Sales Director concludes on the building High-Tec credentials: "Fully connected for the 21st century, the tower has many state-of-the-art technologies. The glass is coincidentally supplied by Guardian Glass – a Molex sister of company, a Koch company".



For more information on how Molex Connected Enterprise Solutions can improve the efficiency and physical security of your IT system, please visit us at www.molexces.com