Cabling solutions at the core of complex Airport projects
JetBlue Terminal installation at New York JFK Airport

Project description:
• Opening in Sept 2008 of a new 640,000 sq foot terminal
• The terminal will double the number of flights

Customer challenges:
• Implementation of a totally redundant data networking system (data, voice & video) to guarantee on-time performance as well as smooth transitioning of people from check-in to take-off

Nexans solutions:
• 2 integrated parallel networks, one for voice/data and one for analog CCTV, using Cat5e cabling, interconnected through their redundant fiber optic backbone
• Guaranteed long-term ROI as the network will be able to handle the scalable speed, bandwidth and power requirements of the emerging applications.
Sheremetyevo International Airport T3, Moscow, Russia

Project description:
• Lead contractors Skanska and Sheremetyevo develop, finance, design and build the new Terminal 3

Customer challenges:
• Construction of the new Terminal 3, to increase passenger capacity to 30 million/year
• Largest international airport in Russia

Nexans solutions:
• LV energy cables (300 km) and signalling and instrumentation cables (150 km)

Key success factors:
- Product quality
- Short delivery times
- Technical support
Beijing Airport – New terminal 3

Project description:
• Bagage Handling System for Beijing Airport Terminal 3, a Siemens Germany and Inter Roller Singapore project

Customer challenges:
• Passenger capacity has more than doubled from 30 to 66.5 million passengers per year.
• Installation of a system, by Siemens and Inter Roller of a bagage handling system capable to sort and transport up to 19,200 bags per hour.
• Some 330 check-in counters are connected to a 68 km, high-speed, tray-conveyor system. Bags are transported through a 2.2 km tunnel at a speed of 36 km/hour to the loading carousels.

Nexans solutions:
• 2500 km of cables: flexible power supply, control, bus and optical fibre cables
• All cables are halogen free
• Compliance with all standards for airport applications
• Full range of cables (power, control, optical) from one supplier
• Short delivery time
Incheon International Airport, South Korea

Project description:
• Fiber optic and copper network cabling solutions, including LANSense Intelligent Infrastructure Management

Customer challenges:
• Provide a state-of-the-art data communications infrastructure required to support the Phase 2 expansion project that will add a new runway and a further 165,300 sq. metres of terminal space to enable passenger numbers to increase to 44 million a year.

Nexans solutions:
• 860 km of Cat6 copper cable
• 351 km of single mode fiber optic cable (12 to 144 cores) for the airport infrastructure
• 86 km of single mode fiber optic cable for the new airport buildings
• 450 sets of racks
• LANSense Intelligent Infrastructure Management for 22,100 fiber optic nodes and 22,000 Cat6 nodes
Abu Dhabi International Airport
Phase 2 expansion project

Project description:
• A Crouse Hinds project: delivery of airfield lighting cables for phase 2 expansion project

Customer challenges:
• Construction of a second runway of 4100 m to welcome larger airplanes (A380, …)
• The new mega midfield terminal complex will be capable of handling 20 million passengers a year. Later it will expand up to 50 million passengers.

Nexans’ solutions:
• 1900 km of primary cable providing power for the lighting transformers
• 770 km of secondary cable that connect the transformers to the airfield lights
Madrid Airport – Luggage Conveying System

Project description:
• Luggage Conveying System: supply of halogen-free cables and wires for energy supply and control functions.

Customer challenges:
• safety requirements: halogen-free, toxically safe and fire-retardant cables
• flexible cables, suitable for narrow-bending radius

Nexans solutions:
• Delivery of 2,100 km of control, safety and special cables to secure power supply and control functions for the luggage conveying system.
Contacts
Global expert in cables and cabling systems

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