

Tecnikabel

WHERE FUTURE FLOWS

CABLES FOR
Airport

TRANSPORTATION
SECTOR



Reliability you can trust.

INTRODUCTION

The Teknikabel portfolio includes standard and custom cables, connectors and advanced components. This makes us a reliable one-stop partner for airport cabling needs. Our cross-sector experience and solutions first created for other industries strengthen our ability to apply know-how from automation,

building & construction and tele-communication fields, identifying hybrid or integrated approaches. An example concerns airport power and communication networks that must comply with strict local city standards. This methodical, engineering-driven approach ensures seamless integration across every critical system.

QUALITY SYSTEM

With nearly 50 years of experience, Teknikabel's enduring commitment to quality has been recognized through the most stringent international manufacturing and quality standards, awarded by both American and European authorities.



Tecnikabel is focused on constant product innovation to get competitive advantages with endless commitment to research and development.

TESTING NORMS FOR FIRE-RESISTANT CABLE PERFORMANCE

IEC 60332-1-2 / EN 50265

Fire propagation on a vertical single cable

IEC 60332-3 / EN 50266 / EN 50305 9.1

Fire propagation on a vertical cables bundle

IEC 60331 / EN 50200 / EN 50362

Fire test resistance

IEC 61034-1/2 / EN 50268-1/2:

Measurement of smoke density of cables burning under defined conditions

IEC 60754-1 / EN 50267-2-1/2

Test on gases evolved during combustion of materials from cables
Determination of the halogen acid gas content

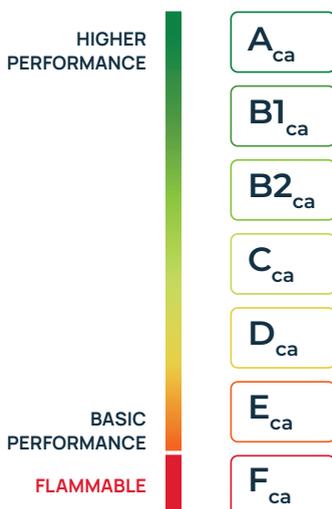
IEC 60754-2 / EN 50267-2-2

Test on gases evolved during combustion of materials from cables
Determination of acidity (by pH measurement) and conductivity



Construction Products Regulation

Our commitment to CPR compliance
Embracing Euroclasses for superior fire safety



Regulation No. 305/2011 (Construction Products Regulation, or CPR) of the European Parliament and of the European Council is a regulation of 9 March 2011 that lays down harmonised conditions for the marketing of construction products and replaces Construction Products Directive (89/106/EEC). The EU regulation is designed to simplify and clarify the existing framework for the placing on the EU market of construction products.

The main objective of the CPR is the removal of technical barriers to trade in order to guarantee the free movement of construction products within the common internal market due to differing product and test standards, approval processes and conformity documents in the various member states. After the transition period, which ended on 1 July 2017, the Construction Products Regulation governs cables intended to be incorporated in construction works (permanent installations) in both buildings and civil engineering.

CPR Euroclasses are: Aca, B1ca, B2ca, Cca, Dca, Eca, Fca.

Aircraft powering cabling system



Our flagship 400 Hz cable powers aircraft from the ground when at rest, parked on the runway or in hangars. With its external PUR sheath and excellent resistance to abrasion, mineral oil, kerosene and antifreeze fluids, this highly-flexible cable is perfect for short distances and high mobility applications operating under extreme mechanical and climatic conditions. Connects via the bridge, mobile tenders or service vehicles.

A 400 Hz cable for static permanent installations can run in ducts between terminal buildings and gates.

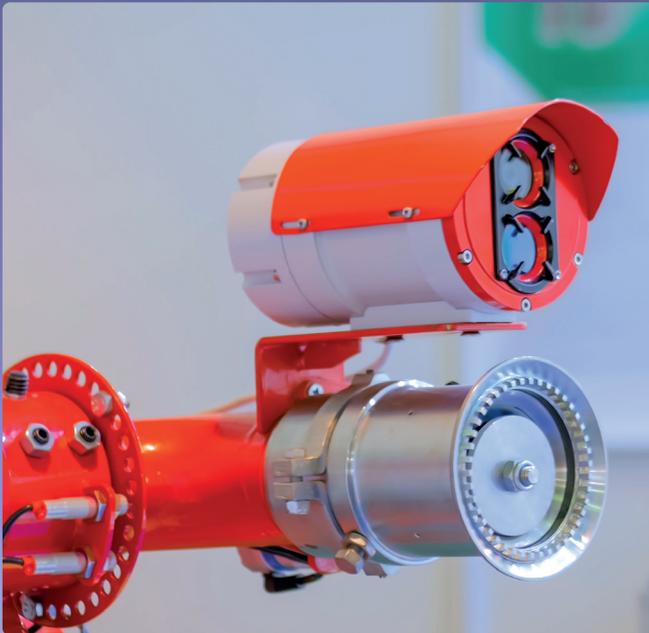
Bridge cabling system



Boarding bridges are closed walkways connecting airport gates to the airplane to facilitate passenger boarding and disembarking. One end anchors to the airport building with the opposite end free to anchor to different models of aircraft. Bridges speed up operations, reduce aircraft downtime, simplify passenger flow, and facilitate access for children and the disabled.

Fully compliant with international norms and standards, Tecnikabel control and energy cables guarantee permanent and mobile bridges safe operations in all weather and temperature conditions.

Fire detection system



Guaranteeing service continuity during fire or in an emergency situation is a key prerequisite of safety in a public building.

Tecnikabel fire-resistant cables are specifically designed for fire safety systems, to ensure maximum functionality even during fires.

The cables' resistance to fire means circuits remain undamaged while their non-emission of corrosive toxic gases creates a safer environment for anyone in the building.

Fire-resistant cables also provide low-voltage energy for alarms, smoke evacuation signals, lighting, sprinklers and security lighting systems, allowing them to continue to operate even in extreme conditions.

Passengers information



The size of modern airports makes it increasingly vital to provide a fast, reliable audio/video information system.

Airports worldwide are equipped with strategically positioned arrival and departure boards displaying flight information and delays, while loudspeakers announce boarding and security alerts. These devices may be hundreds of meters apart.

Our copper and fiber optic products include horizontal cabling such as BUS and Ethernet cables from Category 5e to Category 6a and 7a for just such cases. They make sure information is transmitted to multiple devices in real time, regardless of position and distance.

The more detailed the requirement, the more specific our combined copper and fiber optic hybrid cables

Baggage handling system



One basic airport service involves sorting, checking, unloading, labelling, storing, transporting and loading passenger luggage.

Flexible halogen-free control and power cables are flame-retardant cables used for conveyor belts, motors, sensors, x-ray machines and sorters.

Fiber optic cables designed for these applications offer clear advantages, where their tight radius of curvature and high degree of mechanical strength make them ideal for environments subject to vibration.

Flexible PVC control and power cables provide a standard cost-effective product for baggage handling operations, where restricted space and high-density buildings do not pose a safety risk.

Power networks/building facilities



Restaurants and duty-free shops make passengers' stays more comfortable during stopovers, while power supply and a whole host of additional services, such as signs, and air conditioning to name just two, must also be provided.

However, an airport also needs to guarantee the safety of the hundreds of travellers present at any one time in the wide open spaces with their numerous entrances and exits. A comprehensive system of closed circuit cameras can go long way to guaranteeing this level of safety.

Specially-designed Teknikabel cables tailored to the needs of different airport areas cater to a variety of uses, including power supply, lighting, heating, air conditioning, parking areas, etc.

Airfield ground lighting

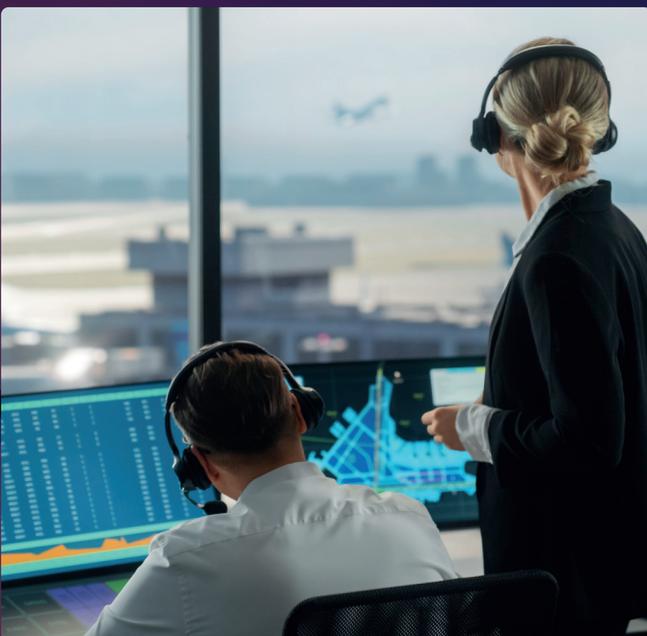


Airport and runway lighting systems provide flight crews with key information about route and trajectory at night or when visibility is poor.

The system of ground signs operating during the day are replaced at night by a lighting system based on shapes, colours and intensity depending on the airport area involved.

A range of XLPE insulated cables with PVC, PE or XLPE sheaths power this lighting. Ideal for ducts, trenches or direct burial, cables can be reinforced to avoid crushing, or resist rodents attack.

Control room



Real-time information transmission and monitoring during landing and take-off is essential for safe air operations and increasingly chaotic air traffic operations have made flight management and instrument control even more critical.

Control systems have to supply reliable information on flight status, to avoid collisions, organise air traffic and provide search & rescue service.

Inside fully digital modern airports, multi-mode and single-mode fiber optic cables are ideal for networks based on Internet protocols, as well as eliminating EMI.

Tecnikabel

Passion flows through our cables

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