
TRANSPORTATION
AIRPORT CABLES
TecniKabel
SPECIAL ELECTRICAL AND OPTICAL CABLES
WWW.TECNIKABEL.COM

INTRODUCTION

The TecniKabel range comprises standard and special cables, connectors and active components. It makes the company a one-stop shop for all airport cabling requirements. We have in-depth experience of a wide breadth of sectors and products originally developed for other markets. This knowledge of industries such as automation, construction and telecommunications enables us to find hybrid or complementary solutions. One example is the case of an airport's own power and communication network requirements where local city standards need to be respected.

PRODUCT LINES

- TRANSPORTATION
- OIL / GAS & PETROCHEMICALS
- TELECOMMUNICATION
- OPTICAL
- AUTOMATION
- BUILDING TECHNOLOGY
- SUBMARINE
- AUDIOVIDEO
- NAVAL
- GREEN ENERGY

QUALITY SYSTEM

Since 1978, constant commitment to Quality has awarded Tecnikabel approval from American and European Authorities, complying with the most demanding international manufacturing and quality standards.

RINA

Member of CISQ Federation
RINA
CERTIFIED MANAGEMENT SYSTEM
ISO 14001

IRIS™
Certification

CSQ IQNet
ISO 9001
edizione norma: 2015
9125 TEKA

UL LISTED

TYPE APPROVED PRODUCT
DNV·GL
MARITIME

CSV
CEI - UNEL

RoHS 2
2002/95/EC

DVE

ABS
FOUNDED 1862

REACH
COMPLIANT

cert. number:
2017010103948372

APPROVED LR

WRAS APPROVED PRODUCT

c UL

SA

YU

LOSS PREVENTION CERTIFICATION BOARD
LPCB
UKAS PRODUCT CERTIFICATION
0007
BS 6387:2013 Cert/LPCB ref. 1352

BRITISH APPROVALS SERVICE FOR CABLES
BASEC
UKAS PRODUCT CERTIFICATION
0004
PRODUCT MARKING LICENCE NO: 226/001

FIRE PERFORMANCE

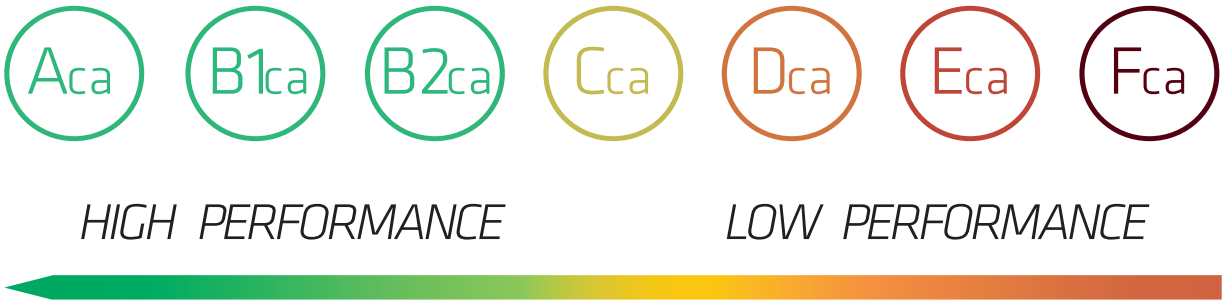
- **IEC 60332-1-2 / EN 50265:**
  Fire propagation on a vertical single cable
- **IEC 60332-3 / EN 50266 / EN 50305 9.1:**
  Fire propagation on a vertical cables bundle
- **IEC 60331 / EN 50200 / EN 50362:**
  Fire test resistance
- **IEC 61034-1/2 / EN 50268-1/2:**
  Measurement of smoke density of 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

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.

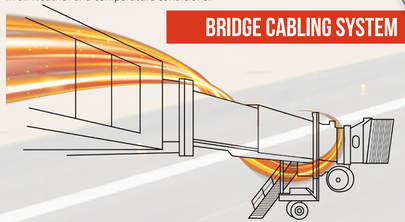


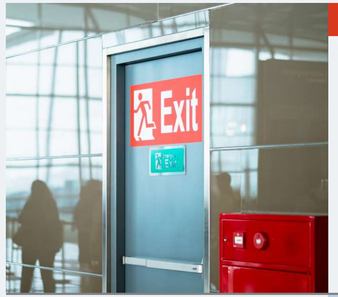
AIRCRAFT POWERING CABLING SYSTEM

Our flagship 400Hz 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.

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.

BRIDGE CABLING SYSTEM





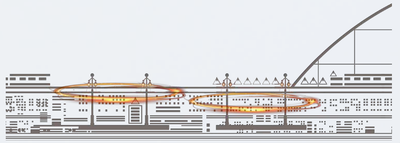
FIRE DETECTION SYSTEM

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.

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.

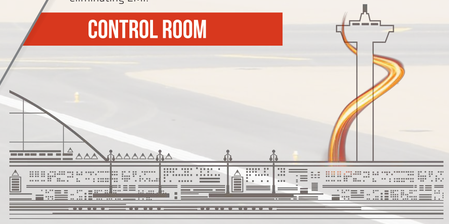
AIRFIELD GROUND LIGHTING



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.

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.

CONTROL ROOM

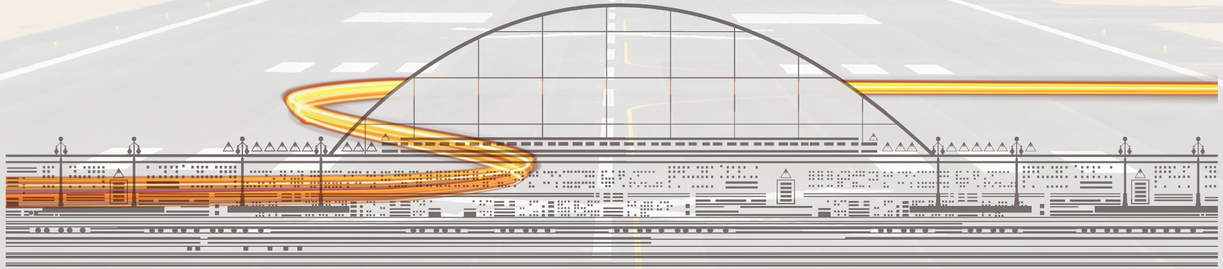


The size of modern airports makes it increasingly vital to provide a fast, reliable audio/video information system.
Airports worldwide are equipped with strategically positioned arrival and departure boards displaying flight information and delays, while loudspeakers announce boarding and security alerts. 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.

PASSENGERS INFORMATION

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 Tecnikabel 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.

POWER NETWORKS/BUILDING FACILITIES



TecniKabel

SPECIAL ELECTRICAL AND OPTICAL CABLES

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10040 Almese (Turin) Italy

PRODUCTION

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