

CASE STUDY



Large international airline specifies Berk-Tek to improve operational efficiency and security

THE CHALLENGE

Increasing security requirements are being compounded by growing pressure to improve operational efficiency, passenger safety and comfort. Consequently, airlines and airports are continuously looking to enhance LAN networking capability and IT solutions. Security cameras, check-in terminals, Wireless Access Points, VoIP and HMI monitors are common applications. In an effort to improve the Jet Bridge experience and deploy new technologies, the Airport Network Engineers at a leading international airline reached out to Berk-Tek for technical expertise to support their redesign of their jet bridge network infrastructure. Berk-Tek's Applications Engineers helped them determine their critical performance requirements.

THE SOLUTION

The solution had to be suitable for industrial harsh environments; therefore, a commercial-grade Ethernet cable could not meet the customer's requirements. Several technical meetings and conference

calls were held between Network, Applications and Design Engineers to ensure the solution met or exceeded the requirements mechanically and electrically. Berk-Tek recommended its Industrial-Grade High Flex Cat 6A Shielded Ethernet Cable that met or exceeded all of the airline's requirements (see table below).

THE RESULTS

The customer is very satisfied with Berk-Tek technical support and product performance. The airline decided to specify Berk-Tek cable across various airport locations and jet bridges in the US.

Berk-Tek's Engineering and Applications support was phenomenal. The product performance and supply reliability were superior, which ensured a seamless and successful project implementation.

Critical Performance Requirements

Highly flexible cable to accommodate daily movement of the jet bridge

High operating temperatures to accommodate extreme weather conditions of harsh winters and summers

Ability to sustain extended sun exposure

Network scalability to support the demanding applications of today and the future (including video, voice and data)

High performance alongside other high voltage cables typically used to operate the bridge

High supply reliability during an aggressive deployment schedule

Berk-Tek Solution Benefits

10 million flex cycles proven by TEK Center-certified testing

Operating temperature from -40°C to +80°C (-40°F to 176°F)

Rated CMX Outdoor and UL444 UV Sunlight Resistant.

Category 6A support of 10 Gbps for current and future bandwidth requirements

Rated for 600V and shielded with a foil and braid construction to protect against external low- and high-frequency noise from adjacent environment

High agility and quick reaction by the factory and distribution channel to ensure On-Time-In-Full delivery for a smooth implementation schedule

