

Helping Keep the “Wheels Up” for a New Aerospace MRO Facility

When a leading global aerospace company who develops, manufactures and services commercial airplanes decided to build an aircraft maintenance, repair and overhaul (MRO) facility in northeastern Florida, their goal was to be the aviation industry’s first digitally enabled maintenance repair and overhaul site enabling their aircraft to spend more time with the wheels up.

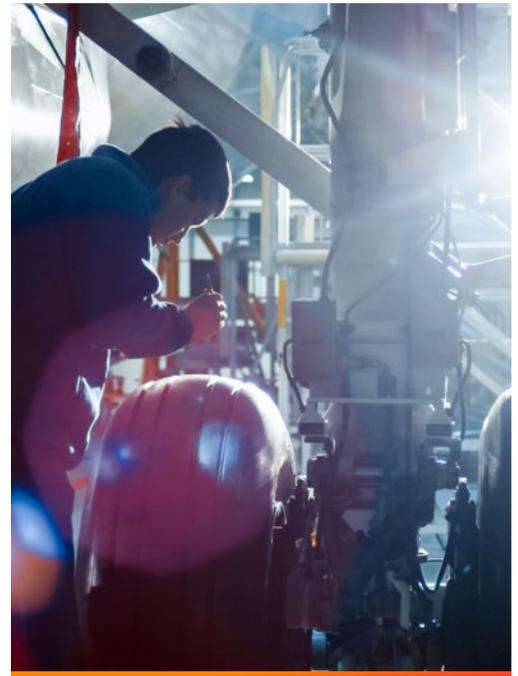
Problem

Maintenance is a major contributor to aircraft operating costs and most airlines spend more on their airplane maintenance than on fuel. As this aerospace company looked at building their new MRO facility, they wanted to be able to make faster repairs and evaluate maintenance decisions using real-time information to troubleshoot and plan maintenance actions, even while the airplane is still in flight. With the onset of Internet of Things (IoT) technology and the abundance of sensors on modern aircraft, they don’t have to wait until the aircraft lands to understand the maintenance and repair needs of each plane. This new MRO facility includes eight new hangars, additional workspace and offices.

These requirements meant that the facility would have to be built with state-of-the-art smart technology, using vast amounts of data. Having that type of smart technology begins with having the best infrastructure in place.

Solution

Meeting with the aerospace company during the initial planning stages of the project, the team from MaxCell® was able to demonstrate how utilizing their flexible fabric innerduct could maximize the capacity of conduits in network infrastructure while preserving space for future needs. MaxCell has been widely used in airport infrastructure construction throughout the country and... ▶



Benefits of MaxCell

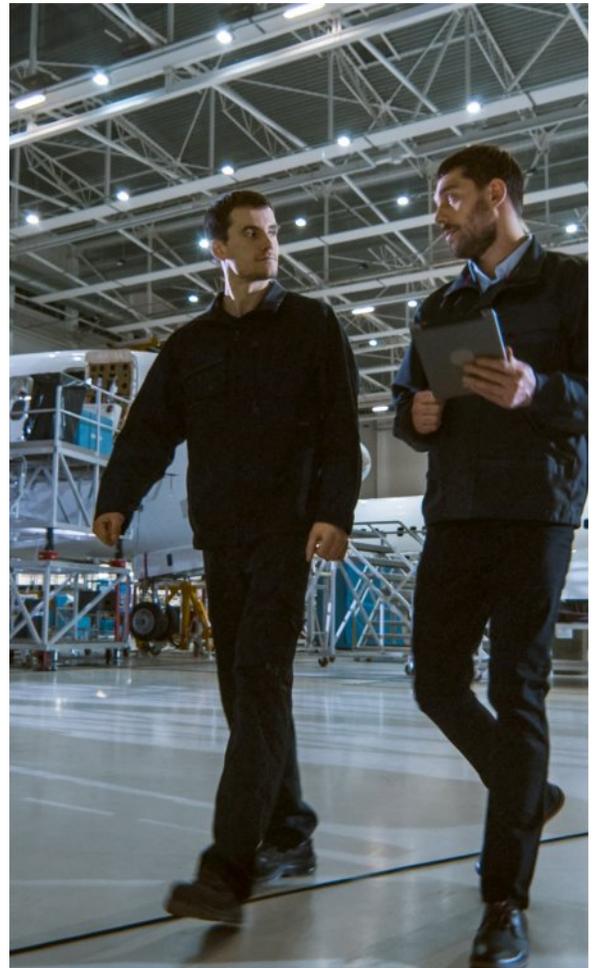
- Unique fabric construction conforms to the cables placed within, greatly reducing wasted space
- Solves cabling issues for conduits, allowing a range of cable sizes
- Is installed easily and cost-effectively
- Reduces material and labor costs
- Preserves space for future bandwidth
- Reduces or eliminates the number of conduits required in new construction
- Manufactured in the U.S.A.



▶ *CONTINUED...* its proven track record made it an obvious choice for this project. Vasts amounts of different types of cable were required for this project which included a variety of both fiber and copper infrastructure for data, communications, low-voltage power, fire, security and access control applications. A mixture of 2" and 3" MaxCell was used to meet the requirements of this project. The MaxCell team worked with the aerospace manufacturer to define the specs for the project and after the project commenced, they were able to provide field installation training to the contractor.

Conclusion

MaxCell's flexible fabric innerduct is playing a part in the technology optimization at this new facility and allows the manufacturer to better track equipment performance needs as well as vastly reducing or eliminating cost inefficiencies. By receiving valuable in-flight data, the ground crew at the new facility can troubleshoot and analyze the data to make the necessary preparations to address the issues as soon as the aircraft lands. Using air to ground connectivity delivers real-time data about possible maintenance issues ahead of a plane landing and means shorter turnaround times and reduced costs.



MaxCell can expand capacity to speed information delivery, keeping companies moving forward.
Contact us before your next project to learn how MaxCell's flexible fabric innerduct fits.

