Case Study

Cardiovascular Applications

Interconnect Solutions for Life-Sustaining Devices

Customer Challenge

A leader in the Class III cardiovascular medical device market has trusted Winchester Interconnect to provide cable assembly solutions for over a decade. The customer originally approached Winchester with a need to improve the overall performance of their life-sustaining medical device. The customer was also having issues with their current supplier and required a more reliable and globally positioned solution.

Winchester's initial engineering review discovered material that was hard to source based on the previous design. Additionally, the material had high tensile strength, making the cable too rigid for the application. Winchester was tasked with creating a design that utilized durable yet flexible components. The product needed to be cosmetically appealing and user-friendly for patients with custom overmolding of the strain relief.

Winchester's Solution

Winchester provided extensive engineering support to the customer as a one-stop-shop for the cable, connector, overmold, and cable assembly requirements. By utilizing these capabilities, Winchester was able to develop an enhanced design for manufacturability (DFM). Overall, this resulted in increased productivity of the interconnect components while also offering flexible design solutions with DFM for injection molding and laser welding tools.

Winchester understands the need for continuous design improvements that align with innovation and technological enhancements for medical devices, especially life-sustaining devices. Therefore, our Winchester manufacturing facilities are ISO 13485 certified and our interconnects are built to Class III standards. We are always developing solutions for customers that support manufacturability, performance, and reliability.

Winchester Interconnect™

We Energize Innovation™