

Medical

## Fiber Optical Sensors designed and delivered in vital time



Intuitive, maker of the robotic-assisted da Vinci® surgical system, works with Amphenol Custom Cable for a new “sensor” cable assembly to advance the next generation of surgical devices.

**Situation:** The da Vinci® surgical system was one of the first robotic-assisted, minimally invasive surgical techniques approved by the FDA. Now, a family of da Vinci® systems and technologies are used in the U.S. and over 66 countries worldwide.

Intuitive continues to innovate the technology as it develops the next generation of da Vinci® surgical systems. The challenge was to partner with a cable supplier to develop a unique “sensor” assembly that could be designed and produced at scale for the rollout of the surgical system’s latest model.

**Solutions for Life-Critical Cable Connections:** As part of Amphenol Custom Cable’s ongoing relationship with Intuitive, engineering and design support was provided collaboratively for the next generation of da Vinci® surgical systems. A critical component of the project consisted of bringing the new “sensor” cable configuration from prototype to production-ready specifications for full-scale manufacturing. During the process, feasibility assessments and production enhancements were made in the cable design to improve efficiency and contain costs during manufacturing.

Simultaneously, Intuitive regularly uses Amphenol Custom Cable’s online buy site to design and order critical testing cables. The buy-direct option is convenient and fast for delivering custom solutions to meet mission-critical client requirements.

**Custom designing a “sensor” cable configuration from prototype to production-ready specifications for the next generation of robotic surgical systems.**

“I wish all suppliers were like Amphenol Custom Cable—very responsive and great to work with.”

– Eric Sanborn  
P.E., Manager Mechanical Engineering,  
Intuitive



### BUY SITE

Online design and delivery of testing cables



### SPEED

Fast, reliable service in days



### CUSTOMIZED SOLUTION

Custom designed prototype, scaled for mass production



### 100% INSPECTION

U.S.-made, certified cable products



### ENGINEERING & SUPPORT

From prototype to full-scale manufacturing