

## D series for Autoclaved Medical Devices

A medical device manufacturer was looking for an alternative to standard high cost autoclave compatible connector offerings for a range of electrophysiology catheters used to map the electrical activity of the heart to detect arrhythmia. This minimally invasive procedure provides access through a small incision (typically in the groin area) feeding the disposable catheter through a blood vessel to the heart, allowing quicker patient recovery than traditional open heart methods. Due to the requirements for size, reliability, and sterilization, the customer required a connector with up to 25 contacts that D Series Connector was easy to use, reliable and could survive multiple autoclave cycles.



## Solution: D Series

Smiths Interconnect's D Series is designed to withstand up to 20 autoclave cycles. Utilizing a high strength polymer for both the plug and receptacle, the D Series is selectively loaded with up to 25 hyperboloid contacts, allowing conformity to most device requirements. The system side panel mount receptacle with Hypertac® sockets provides high mating cycle life (up to 100k cycles), while the cost effective male pin plug on the device side ensures reliability with minimal expense.





## Customer Advantage

**Reliable:** High cycle life on the system side increases the Mean Time Between Failures

**User Friendly:** The simple push-button latching system ensures connectors stay dependably mated during the procedure; then unmated quickly and easily

**Robust:** Available in high strength polymer for harsh environments and sterilization

**Economical:** The standard 25 position D02 can be selectively loaded without custom components. The male plug provides a cost effective mate to the receptacle with high cycle life Hypertac® socket contacts

**Crimp and Poke Contacts:** Eliminates the need to pre-tin, solder, and shrink boot during termination – reducing assembly costs and cost of ownership