

molex

MEDISPEC MEDICAL PLASTIC CIRCULAR INTERCONNECT SYSTEM

The MediSpec Medical Plastic Circular Connectors Provide Medical Device Manufacturers with a High-Quality Cost-Effective Alternative Solution

BUSINESS CHALLENGE

Medical device manufacturers are receiving pressure to reduce the cost of their products based on demands from today's healthcare environment. At the same time, reliability is critical and cannot be compromised when seeking a lower cost alternative.

Circular connectors are commonly used within many Medical Equipment modalities such as Surgical, Electrophysiology, Imaging and Monitoring in applications such as catheters, sensors and tools. These often require demanding characteristics such as high mating cycles, sterilization resistance, easy push pull cable connect / disconnect and bio-compatibility. This can often be a costly element of the equipment.

SOLUTION

The Molex MediSpec Medical Plastic Circular (MPC) Interconnect system delivers high performance, reliability and flexibility in a cost-effective solution for medical device applications.

The MediSpec MPC system offers a lower cost alternative to expensive circular connectors. Using proven Molex stamped-and-formed contact technology and selective plating ensures a reliable electrical interface and 10,000 mating cycles.

The flexibility for selective pin-count is another MediSpec design advantage. The flexible MPC system is available in both a D1 (up to 8 pins) and a D2 version (up to 17 pins). Pins can be selectively loaded to specific pin count requirements rather than wasting unneeded pins.

MPC deploys two different medical-grade plastic housing materials based on application needs. A PPSU, sterilization resistant material is used for multiple use applications that must withstand sterilization processes including autoclave, Ethylene oxide (EtO), gamma and chemicals. A lower cost, medical

grade Polycarbonate material, which is also resistant to single cycles of EtO and Gamma sterilization procedures, is used for very cost sensitive single-use applications.

The MPC interconnect is available with an easy to use push-pull locking latch system that provides a cable un-mating force to 50 N min for D1 and 85 N min for the D2 versions. A passive latching system is standard for single use applications to reduce costs. Passive latching provides 10n min un-mating force in the D1 and 15n min in the D2 size.

CUSTOMER BENEFITS

The MediSpec MPC Interconnect System provides proven Molex contact technology, housing design, practical features and cable assembly expertise in an easy-to-use, reliable solution to help lower costs.



To learn more www.molex.com/link/medispecmpc.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.