Waterproof and Standard RF Connectors for Medical Applications

For more information, please visit www.intelliconnectusa.com . Posted Ron M. Seidel, Editorial Intern March 1, 2012

Designed and manufactured in the USA, fast turnaround standard and custom designs

Intelliconnect now offers their fast turnaround custom design service for non-standard medical connectors used in specialized medical products. Typical turnaround time is 7-8 weeks. Intelliconnect does not charge NRE and has low minimum order quantities. Many triaxial and coaxial products are available from stock.

Versatile Intelliconnect products are already used in a wide range of medical applications, including micro-miniature waterproof style connectors used in cochlear ear implants, triaxial connectors for RF cancer treatment, radiation dosimeters and detectors and products for RF ablation, bio-medical test equipment and bionics. Intelliconnect can customize these and other standard coaxial and triaxial types.

Terry Browning, President of Intelliconnect USA, comments, "Our success in the medical market is due to our wide range of products and ability to produce custom connectors quickly. Manufacturing in the US gives us great flexibility and control of our costs, allowing us to provide our customers with a no-compromise connector solution at a very competitive price."

Standard Intelliconnect medical products include the TRB and TRT triaxial connector series designed primarily to reduce noise levels in systems while providing an isolated ground. The TRB series has a bayonet locking mechanism as designed on

the BNC series while the TRT series has a 7/16-28 thread coupling mechanism as designed on the TNC series. Both the TRB and TRT series are non-constant impedance and incorporate a third conductor. These two products feature a state of the art clamping construction and weatherproof sealing features which ensure excellent termination to various twinaxial and triaxial cables. Triaxial connectors are also used in broadcast applications.

The waterproof ABMS micro miniature size connector series is similar to, and offers the same weight and space benefits of, the standard MCX connector series. The ABMS connector is a more rugged design, rated to 3000 mating cycles and waterproof to IP68. This connector series offers a quick snap-on locking mechanism and is used with small, semi-rigid and flexible cables. These connectors can also accommodate various PCB, surface, edge, press fit and bulkhead mounting configurations.

As well as Coaxial and Triaxial connectors, Intelliconnect also offer multipin power and signal solutions.

All Intelliconnect RF connectors are designed in accordance with US MIL-STD-348 and US MIL-PRF and have an operating temperature range of -65°C to +165°C and the ABMS series is waterproof to IP68/Nema6.

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