



Cambridge Connectors™
A Division of Cambridge Electronic Industries Ltd.

New Product Press Release - for immediate release

Cambridge Connectors introduces 6GHz 75 Ohm Changeable Interface coaxial connector system.

This unique changeable interface system offers the ability to mix and match connector styles on a standardised PCB mount without expensive design changes – ideal for 4K Ultra High-Definition Television or Test Equipment applications.

This new changeable interface connector system consists of two parts: the connector body, which is fixed to a processor board; and the changeable interface, which connects to the mating half, which in turn can be DIN 1.0/2.3, BNC or Micro-BNC, among others. Designed for 6GHz high-speed high-definition video applications, such as the latest 4K, UHDTV (Ultra High-Definition Television) standard, all mainstream 75 Ohm coaxial interface styles can be accommodated by the system.

The flexibility of the system means that one standard connector footprint on the PCB can provide a wide variety of mating options. This means that PCB layouts can be made independent of connector types enabling designers to future proof board designs.



In addition, the changeable interface connector system greatly reduces time and costs when modifications to the front interfaces are necessary to meet different connector styles. Retroactive changes can be made quickly and simply and field repairs can be implemented onsite, thereby minimising system downtime. The system is also ideal for test equipment applications.

Device characteristics include a nominal impedance of 75 Ohm and typical reflection factor performance (VSWR) of 1.10 maximum (DC – 3.0GHz) for the PCB mount device, and 1.35 maximum (3.0 – 6.0GHz) for the BNC, 1.0/2.3 and Micro-BNC interfaces.

Other electrical characteristics of the system include a working voltage of 250V with a withstand voltage of 750V and greater than 1000-MOhm insulation resistance. The high-durability connectors offer 500 mating cycles, offer a wide operating temperature range of –65 to +85 degrees C and meet ML-STD-202 for resistance to vibration and salt spray.

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