

Omnetics Miniature Connection News

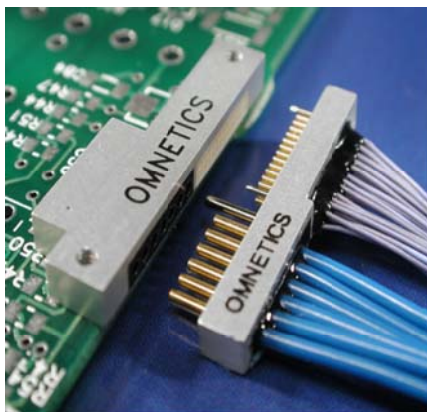
Power source at 3 Amps per line – Plus Multiple Nano Signals for High Density

“Micro-Plus-Nano” Connectors

Power systems often carry as much as 3 amps per line and yet the signal line supplies run below 1 amp. To reduce space requirements and weight, Omnetics customers have asked for mixed-signal connections. The image above is an example of that technology in action. Look carefully and you can see that it was a simple matter of using Standard size Nano-insulators, with nano-pins and sockets, in one set and micro-size insulator and elements in the adjacent set.

The Metal Shells were CNC machined to match the two elements and the customer may then layout his P.C. board to the new connector body shape. Because Omnetics uses Military Test Certified Components, and are QPL qualified at Mil.-DTL-32139, and Mil.-DTL- 83513 we know the reliability and quality will be there to meet the needs of many custom applications.

Omnetics will use proven standard pins & sockets, insert them into standard Insulator systems and build, or over-mold the outer shell system to meet the customer’s need. This method will provide lower cost prototyping and faster turn on new concepts from probe electronics and modules to “Space Technology” applications. Omnetics has provided connectors that are working on Mars for the NASA program using this method. Certified material specifications assure the design engineer that the Micro-Plus-Nano connectors will exceed the reliability requirements while saving size and weight in critical designs .



NASA Connectors for Robotics

