
Do you need to make
the connection?

Amphenol

The Inter-Connection

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The future of 62GB in military communications

The 62GB series of connectors, based on Mil-C-26482, is the current bedrock connector of UK military communications, having been in existence for over 40 years. With the new communications programmes like Bowman, the question arises as to the future of the 62GB series. At Amphenol we believe that future is golden, as the range of connectors is developed further, to meet the requirements of the 21st Century Battlefield. Working closely with their customers and the M.o.D., Amphenol are in a position to face the changing requirements head on.

NBC Attack - The traditional way of mounting a connector, is by way of a jam nut, fitted from the front of the equipment box.

Unfortunately, this method does not guarantee full protection against chemical attack, as materials can become trapped under the jam nut, causing difficulties with cleaning during the wash down process. By fitting a jam nut from the inside of the equipment box, we are able to offer a flush surface for easy cleaning. These connectors are now available as the 62-5147 (for pintail) and the 62-5167 (for solder bucket) ranges.

Increased Data Lines - Front line soldiers now require more information, which in turn requires more data lines. The simple option would be to introduce more connectors, but in most cases there is no available space. contacts.

The solution, therefore, was to move towards higher density platforms, using size 22 Amphenol are now developing a range of 62GB, high density platforms, which will enable the connector count to remain the same.

Power Lines - Traditionally, this has been an area not previously covered by Amphenol's 62GB series, but in order to complete the range and support our customers needs, we have developed a number of platforms with power contacts, capable of carrying up to 45 amps. The platforms now covered are 14-02, 14-04, 14-22, 16-04, 18-22 and 22-04.

Battery Packs - One connector is currently needed to charge the battery and another to

run equipment off the battery.

As with other equipment, space is at a premium, so Amphenol have designed a single connector which will manage the requirements of both charging and discharging, whilst keeping the live lines protected by the insert moulding. This connector, commonly known as the pocket, is available under part numbers, 625171-14-94 (for the receptacle) and 62-5172-14-94 (for the free plug).

EMC/EMP Protection - Customers are primarily concerned with saving space and Amphenol have been able to help by way of a filtered 62GB connector (482 series). Because the filtering and EMP elements are housed within the connector, the need for the customer to have separate decoupling boards within their equipment, has been removed, thereby reducing the overall size of the radio packs. Through listening to their customers Amphenol have developed the 62GB range of connectors to meet the needs of the 21st Century Battlefield.