

# Amphenol



*Photo: Amphe-dB Industrial filter and chip capacitor board within the 5015 high performance series.*

## Amphenol® Amphe-dB Industrial Filter Connectors

### Amphenol Industrial Filter Connector Solutions

AIO, Amphenol Industrial Operations offers the rugged and environmental filter interconnect solutions the Industrial Market requires. By combining proven connector series with modern filter technology, Amphenol can provide a completely environmental filtered connector that is able to survive the most challenging applications. This combination provides a clean signal prior to entering a device, eliminating the need to redesign either the box or the printed circuit board.

“P”, “C”, and chip capacitor board technology can be incorporated into many of the Amphenol Industrial connector series. Specific combinations of connectors and filters can be tailored to meet customer requirements.

### Common Applications for Industrial Filters:

- Welding Equipment manufacturers are turning to Amphenol Industrial to filter the data signals from remote sensing equipment. Sensor leads that extend from the welder control panel are filtered in 5015 connectors at the entry to the control box.
- GPS Equipment that is being installed on earth moving equipment requires filtering. EMI interference from engine operation and control devices is being removed with customer specific filters.
- Heavy Equipment - Platform hoists and scissor lifts require filters to meet EC requirements. Operation control wires emit EMI interference that could cause faulty scale readings. MIL-C-26482 type filters provide a solution.

## Industrial Applications Requiring Filter Protection

Electronic devices are being installed on equipment that emit electro-magnetic interference (EMI). The proper operation of these devices is dependant upon a clean signal to be processed. As more equipment is entering the industrial work environment, EMI interference is becoming more prevalent.

EMI interference is compromising the reliability of electronic devices. Redesign of PCB boards to incorporate filtering requires major board

changes and the boards are difficult to retrofit on existing equipment. Board filtering does not clean the signal prior to entering the device.

Industrial Filters can also be incorporated into PT Miniature series (MIL-C-26482, series 1 Industrial types), Amphe-Lite series, GT Reverse Bayonet series and Amphe-TVS connectors.

## Amphe-dB Part Numbering

