Amphenol Industrial Filter Connector Solutions

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.

“Pi”, “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 custom 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 dependent 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

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<th>AdB</th>
<th>4</th>
<th>7</th>
<th>F</th>
<th>24</th>
<th>2</th>
<th>P</th>
<th>3</th>
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| AdB | designates Amphenol Industrial Filter Connectors

Product Family:
1. designates 5015
2. designates PT
3. designates Amphe-Lite
4. designates Amphe-TVS
5. designates GT

Shell Styles:
0. designates Wall Mt. Receptacle
1. designates Box Mt. Receptacle
7. designates Jam Nut Receptacle

Shell Finish:
F. designates Electroless Nickel

Shell Size:
Amphen-TVS & PT (Sizes 8–24)
5015 & GT (Sizes 8–40)

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Amphe-Lite (Sizes 3–25)

Insert Availability (See specific product catalog for insert availability lists and drawings):

Amphen-TVS - Consult Amphenol Industrial Operations
See catalog 12-020, MIL-DTL-5015 and MIL-5015 Type Standard Cylindrical Connectors, or see catalog 12-023, AC Threaded Series Industrial Cylindrical Connectors

PT - See catalog 12-070, Miniature Cylindrical Connectors

Amphe-Lite - See catalog 12-064, Amphe-Lite Miniature Cylindrical Connectors

GT - See catalog 12-024, GT Series Reverse Bayonet Coupling Connectors

Filter Capacitance (pF):
Common Filtering (F - first digit)
2nd and 3rd digits are significant figures of capacitance value
4th digit is the number of zeros following
Example: F105 = 10.000 pF

Special Filtering (X - first digit)
Remaining digits represent the next available 3 digit number
Example: X001 = Special 001

Contact Termination:
1. designates Solder
2. designates Crimp
3. designates Pressure

Alternate Rotation / Keying:
Cmi for normal, or W, X, Y or Z
Amphe-Lite only: Cmi for normal, or A, B, C, D or E

Contact Type:
P. designates Pin
S. designates Socket

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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