

Specialty Connectors

Custom filtered connectors for MIL- Hi-Rel Applications

API Technologies offers a complete line of complete line of compact and extended shell filtered connectors providing a wide range of design flexibility. These compact shell filtered connectors offer designers an effective filtering device that reduces the amount of real estate required within a product enclosure. Our extended shell connectors are constructed by adding either planar or tubular capacitor filtering to the rear of a standard connector, which makes them ideal when quick turnaround is required for prototype devices.

Styles offered include the following, as well as custom designs:

- MIL-DTL-38999
- MIL-DTL-83723
- MIL-DTL-26482
- MIL-DTL-55116
- MIL-DTL-24308
- MIL-DTL-5015

We offer tubular and planar style filtered arrays in Pi, LC, T, and C circuits with TVS protection also available. Reliability is ensured through 100% testing of each position for critical electrical parameters

Custom Unfiltered Connectors

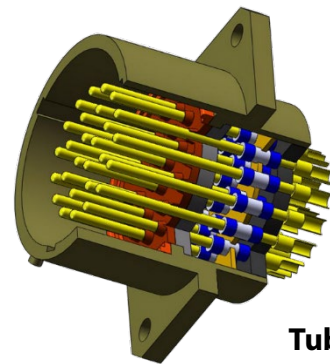
API also offers unfiltered custom connector design and manufacturing. Parts can be designed to meet your mechanical and environmental specification or those similar QPL Connectors.

Features

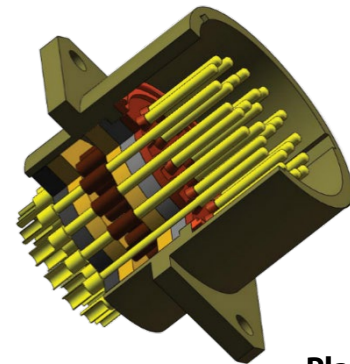
- Built to MIL specifications
- Custom shells to fit available space
- Multiple terminations available
- Built to meet various environmental environments
- Integral strain relief
- Power, signal, and coax line combinations

Vertically Integrated

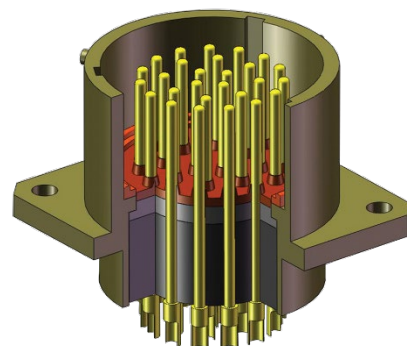
This line of custom filtered and unfiltered connector offerings are fully integrated. Components including capacitors and shells are manufactured by API, providing customers high quality parts at very competitive prices, with the industry's shortest lead times.



Tubular Filtered Connectors



Planar Filtered Connectors



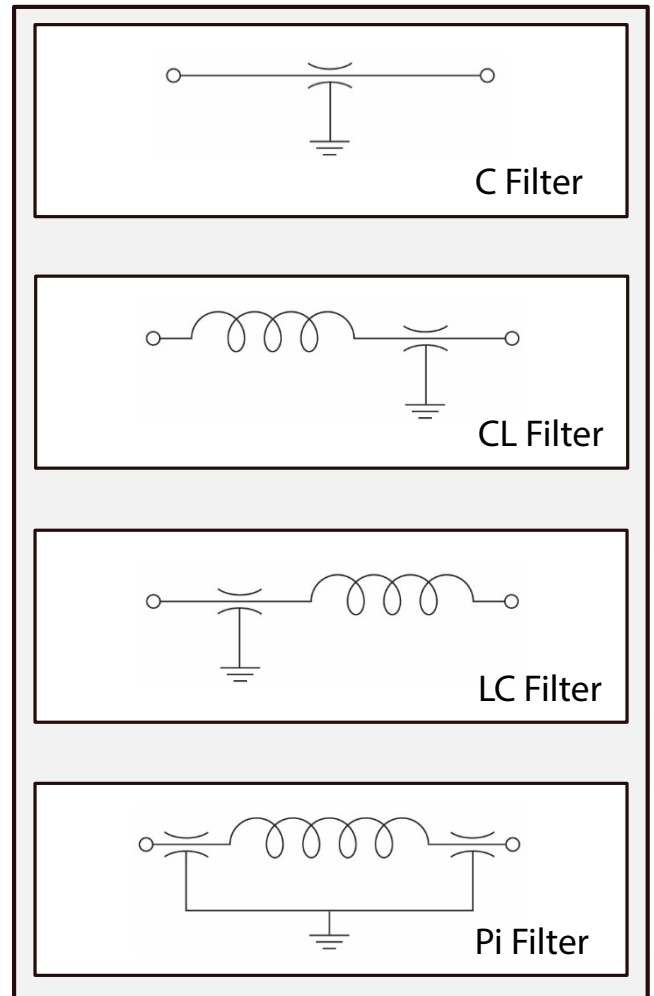
Unfiltered Connectors

API Technologies offers a premium line of custom and specialty filtered connectors. These custom high reliability, circular, rack and panel, and ARINC connectors have a reputation for superior quality and performance. Several types of filtering are available (see figures at right).

Specifications

Operating Temperature	-55°C - 125°C
Capacitance	Up to 1µF
Capacitance Tolerance	±10%, ±20%, +100%
Capacitance Rating	Up to 1500VDC
Dielectric Withstanding Voltage	Up to 3000VDC
Dissipation Factor	< 3.5%
Insulation Resistance	100 MΩ, µF, or 10KMΩ

The electrical properties listed above are typical, and can be exceeded based on customer requirements and mechanical configuration. Since many variables affect the design, it is best to contact us directly for a detailed assessment of connector needs.



Insertion Loss (db) per MIL-STD-220

