



## Filter Connector

# **Military AC Connectors**

**RF Immunity** is proud to present its line of filtered connectors specially designed for AC (Alternating Current) power lines applications. Designed to solve Electro -Magnetic Compatibility problems, the AC filtered connectors are designated for electronic systems fed from aircrafts' or shipboards' power generators.

These solutions cover both CE (Conducted Emission) and RE (Radiated Emission) of the systems, and protect the systems from incoming interferences which ride on the power lines, also known as CS (Conducted Susceptibility).

The selected AC connectors presented herewith describe the most popular contacts arrangements in use for AC applications.

All of the mentioned below are applicable for working voltage of 230VAC/50, 115VAC/60Hz and 115VAC/400Hz, 1-phase or 3-phase applications and have leakage current lower than 10mA.

This line of product comes with different mounting, terminations and diversified mechanical characteristics.

## MIL-DTL-38999 Contacts Arrangement A-98 (#20 x 3 contacts)

- >> Standard connector size.
- >> Pi Filter of up to 5.4nF/1000VDC
- >> Contact Current Rating up to 7.5A



D38999 3 PIN NO EXTENSION

- >> Enlarged connector size
- >> Pi Filter of up to 20nF/2000VDC or 66nF/1000VDC
- >> Contact Current Rating up to 7.5A



D38999 3 PIN Laterally Extended

- >> Enlarged connector size
- >> Includes Common Mode Choke of 300µH/2A
- >> Pi Filter of up to 20nF/2000VD C or 66nF/1000VDC





D38999 3 PIN Longitudinal Extended

### MIL-DTL-38999 Contacts Arrangement B-05 (#20 x 5 contacts)

- >> Standard connector size
- >> Pi Filter of up to 5.4nF/1000VDC
- >> Contact Current Rating up to 7.5A



D38999 5 PIN NO EXTENSION







## **MIL AC Filter Connectors**

- >> Enlarged connector size
- >> Pi Filter of up to 20nF/2000VDC or 66nF/1000VDC
- >> Contact Current Rating up to 7.5A



D38999 5 PIN Laterally Extended

- >> Enlarged connector size
- >> Includes Common Mode Choke of 100µH/6A
- >> Pi Filter of up to 40nF/1000VDC



D38999 5 PIN Longitudinal Extended

## MIL-DTL-38999 Contacts Arrangement C-04 (#16 x 4 contacts)

- >> Enlarged connector size
- >> Includes Common
  Mode Choke of 10mH/5A
- >> Pi Filter of up to 20nF/2000VDC or 66nF/1000VDC



D38999 4 PIN Longitudinal Extended

>> Standard connector size

MIL-DTL-38999 Contacts Arrangement E-06

>> Pi Filter of up to 16.2nF/1000VDC

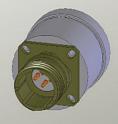
(#12 x 6 contacts)

>> Contact Current Rating up to 23A



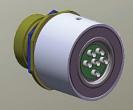
D38999 6 PIN NO EXTENSION

- >> Enlarged connector size
- >> Includes Common Mode Choke of 10mH/13A
- >> Pi Filter of up to 20nF/2000VDC or 66nF/1000VDC



D38999 4 PIN Enlarged Extension

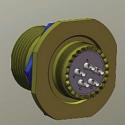
- >> Enlarged connector size
- >> Includes Common Mode Choke of 300µH/15A
- >> Pi Filter of up to 20nF/2000VDC or 66nF/1000VDC



D38999 6 PIN Enlarged Extension

#### MIL-DTL-38999 Contacts Arrangement D-05 (#16 x 5 contacts)

- >> Standard connector size
- >> Pi Filter of up to 13.6nF/1000VDC
- >> Contact Current Rating up to 13A
- >> Transient Protection Applicable



D38999 5 PIN NO EXTENTION

#### **RF Immunity Ltd**

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