

## **Filtered Audio Connectors**

ESD protection up to 8kV direct discharge and 15kV air discharge



## Features

- Easy retrofit or upgrade
- Reduced cost and lead times
- Design flexibility and quality assurance
- Versatility
- Custom designs available

## **Applications**

- Aerospace
- Communications and security equipment
- Harsh condition environments
- Where an electronic system may be exposed to ESD environments

API Technologies has modified the standard MIL-DTL-55116 connectors that are used in 60 volt/0.5 Amp audio frequency circuits to provide effective EMI filtering. API's filtered audio connectors are waterproof and polarized, five or six pin electrical plugs/receptacles and can be designed for special and selectively loaded EMI filtering. These custom filtered audio connectors meet all the requirements of MIL-STD-810F including sand and dust, salt, fog, high altitude operation, fungus resistance and immersion to 20 meters.

The audio connectors also can include ESD (electrostatic discharge) protection up to 8kV direct discharge and 15kV air discharge. Custom designs addressing other discharge requirements are available.

Filter Circuits	Capacitance		Dielectric	Working	3 dB Cut-Off	Minimum Insertion Loss – Decibels (dB)							
	Value	Tol.	Withstanding Voltage	Voltage DC	Frequency Max. (MHz)	5 MHz	10 MHz	20 MHz	50 MHz	100 MHz	200 MHz	50 MHz	1000 MHz
С	1000	+100, -0%	300V	100V	3.2	-	5	10	17	23	30	37	43
С	5000	+100, -0%	300V	100V	0.64	10	16	22	30	35	41	50	52
Pi	1000	+100, -0%	300V	100V	3.2	-	5	9	19	30	43	62	70
Pi	4000	+100, -0%	300V	100V	0.8	8	13	20	35	48	61	76	80