

# Amphenol<sup>®</sup>/Matrix<sup>®</sup> Miniature Cylindrical MIL-C-83723, Series III Connectors

## class descriptions, performance specifications

### CLASS DESCRIPTIONS

Military MIL-C-83723, Series III	Amphenol/Matrix Proprietary MB Series	Connector Style	Description
Class A	Class A	Bayonet, Threaded or Quick-Disconnect	Aluminum shell, black non-conductive anodize finish, fluid resistant
Class R	Class R	Bayonet, Threaded or Quick-Disconnect	Aluminum shell, electroless nickel finish, fluid resistant
Class G	Class G	Bayonet, Threaded or Quick-Disconnect	Stainless steel shell, passivated, fluid resistant
Class W	Class W	Bayonet, Threaded or Quick-Disconnect	Aluminum shell, cadmium olive drab finish, corrosion/fluid resistant

For Classes K, S and N, contact Amphenol, Sidney, NY for information on the Amphenol/Pyle high temperature versions of MIL-C-83723, Series III.

### PERFORMANCE SPECIFICATIONS

#### SERVICE RATINGS

Service Rating	Recommended Operating AC Voltage at Sea Level	Test Voltage AC (RMS), 60 cps			
		Sea Level	50,000 ft.	70,000 ft.	110,000 ft.
I	600	1,500	500	375	200

Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

#### OPERATING TEMPERATURE RANGE

-65°C (-85°F) to 200°C (392°F)

#### ENVIRONMENTAL SEAL

Wired, mated connectors with the specified accessory attached will meet the altitude immersion test specified in MIL-C-83723.

#### DURABILITY

Minimum of 500 mating cycles.

#### SHOCK AND VIBRATION REQUIREMENTS

Wired, mated connectors shall not be damaged, nor shall there be a current interruption longer than one microsecond when subjected to the following:

##### SHOCK:

One shock in each of the three major axes, having a 100g peak for a six millisecond duration (half-sine pulse).

##### VIBRATION:

Twelve hours of random vibration having a range of 10 to 2,000 Hz with a .06 inch double amplitude (10-55 Hz) and a 20g peak level (55-2,000 Hz).