

# Amphenol® /Matrix® MS/Standard Cylindrical MIL-DTL-5015 Connectors

## class descriptions, performance specifications

### CLASS DESCRIPTIONS

Military MIL-DTL-5015	
Class L*	aluminum shell, electroless nickel finish, fluid resistant insert
Class W	aluminum shell, cadmium olive drab finish, fluid resistant insert
Class LS	stainless steel shell, passivated, fluid resistant insert
Class KT**	firewall, steel shell, cadmium olive drab finish, non-flammable hard dielectric and fluid resistant insert
Class KS	firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert

Amphenol/Matrix	
Class A	aluminum shell, black anodize finish, fluid resistant insert
Class F	aluminum shell, electroless nickel finish, fluid resistant insert
Class W	aluminum shell, cadmium/olive drab finish, fluid resistant insert
Class FS	stainless steel shell, passivated, fluid resistant insert
Class KT	firewall, steel shell, cadmium olive drab finish, non-flammable hard dielectric and fluid resistant insert
Class KS	firewall, stainless steel shell, passivated, non-flammable hard dielectric and fluid resistant insert

\* Class L inactivates older Class U (aluminum, electroless nickel)

\*\* Class KT (ferrous alloy, cadmium/olive drab) inactivates older Class K (ferrous alloy, electroless nickel)

### PERFORMANCE SPECIFICATIONS

#### VOLTAGE RATING

Altitude	Inst.	A	D	E	B	C
Sea Level	1000	2000	2800	3500	4500	7000
50,000 ft.	400	600	675	750	825	975
70,000 ft.	260	360	400	440	480	560
110,000 ft.	200	200	200	200	200	200

#### SHOCK

Wired, mated connectors are subjected to one shock in each of three mutually perpendicular axes with pulse of an approximate half sine wave of 50g magnitude for a duration of 11 milliseconds. All contacts wired in series circuit with 100 ±10 milliamperes of current flow.

#### OPERATING TEMPERATURE RANGE

Classes L, LS and KS have temperature range of -55°C (-75°F) to 200°C (392°F)

Classes W and KT have temperature range of -55°C (-75°F) to 175°C (347°F)

#### ENVIRONMENTAL SEAL

Wired, mated connectors with the specified accessory attached will meet the altitude immersion test specified in MIL-DTL-5015.

#### DURABILITY

Minimum of 100 mating cycles.