

Special Purpose Interconnection Products, cont.

Gatelink Breakaway

Reference Product Data Sheet 170



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
Designed for commercial aircraft applications, with self-contained environmental closures for hook-up to the gateway. Lanyard release mechanism on the plug allows automatic separation. Ideal for usage where the receptacle will be unmated and exposed to the environment.	ARINC 644 type. Incorporates environmentally sealed spring loaded contacts, ref. MIL-C-55116B.	Push and turn, spring loaded coupling; detent locking. Plug has a keyed alignment with jam nut receptacle. Orientation indicator for ease of coupling.	Solder contact termination in plug. Utilizes standard MIL-C-83723 Series III socket contacts in the receptacle. Currently available with 10 size 16 contacts.	Operating temp. from -55°C to $+85^{\circ}\text{C}$. Rated at 60 VDC and 0.5 amps current (surges to 500 VDC and 7.5 amps). Contact pressure of .80 lbs. to 1.38 lbs. in fully mated condition. Durability: 3000 matings. Vibration: 10-55-10 Hz sine with .06 in. max. excursions.

MARKETS

- Commercial Aircraft
- Geophysical
- Ground Support
- Military Aircraft
- Shipboard

OPTIONAL FEATURES

- Accessories available, MIL-C-83723 type.

PMAT (ARINC 644)

Reference Product Data Sheet 157



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
High performance plug and receptacle with a self-contained environmental cover on the receptacle half. Ideal for usage where the receptacle will be unmated and exposed to the environment.	Meets applicable requirements of ARINC 644 specification. Incorporates environmentally sealed spring loaded contacts, ref. MIL-C-55116B.	Push and turn, spring loaded coupling; detent locking. Plug has a keyed alignment with jam nut receptacle. Orientation indicator for ease of coupling.	Solder contact termination in plug. Utilizes standard MIL-C-83723 Series III socket contacts in the receptacle. Currently available with 10 size 16 contacts.	Operating temp. from -55°C to $+85^{\circ}\text{C}$. Rated at 60 VDC and 0.5 amps current (surges to 500 VDC and 7.5 amps). Contact pressure of .82 lbs. to 1.22 lbs. in fully mated condition. Durability: 3000 matings. Vibration: 10-55-10 Hz sine with .06 in. max. excursions.

MARKETS

- Commercial Aircraft
- Geophysical
- Ground Support
- Military Aircraft
- Shipboard

OPTIONAL FEATURES

- Accessories available, MIL-C-83723 type.

Zero-G, Astronaut Handle-Operated Connectors

Reference Product Data Sheet 147.



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
High environmental performance MIL-DTL-38999 Series III type connector designed for use in a manned spacecraft environment.	Meets parameters of MIL-DTL-38999, Series III. Astronaut EVA compatible. Qualified/listed on NASA specification SSQ-21635.	Handle-operated latch mechanism is uniquely designed for ease of mating and unmating by a suited astronaut. Wall mount and jam nut mount styles are standard.	Crimp termination. Recessed pins (100% scoop-proof feature minimizes contact damage). Current arrangements are per NASA SSQ21635.	Operating temp. from -80°C to $+138^{\circ}\text{C}$. Capable of withstanding 175,200 thermal cycles. Firewall Explosion proof capability. Low out-gassing. See MIL-DTL-38999 Series III performances, page 11.

MARKETS

- Space Applications - Used on Apollo, Lunar Rover, Skylab and Space Station.

OPTIONAL FEATURES

- Several of the optional features for MIL-DTL-38999 Series III connectors are also available in the Zero-G. Consult Amphenol Aerospace for further information.
- Additional arrangements can be designed, consult Amphenol Aerospace for further information.