

# Fiber Optic Products, cont.

## Space Application Fiber Optic Connectors

Consult your local Amphenol sales office for further information.



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
Fiber optic high speed transmission interconnects for the highest performance requirements of space application.	Incorporates MIL-T-29504 fiber optic termini. Connectors meet requirements of NASA specification SSQ-21635. Some versions meet MIL-STD-1773 databus.	Threaded coupling. Handle operated push-pull coupling design available. Wall mount, jam nut mount and bulkhead fee-thru receptacles.	Fiber optic termini in size 16 can be combined with power or shielded contacts.	Operating temp. from -55°C to +200°C. High grade stainless steel shells and finishes resist corrosion. Hermetic versions are rated to 5 X 10 <sup>-9</sup> cc/sec helium leakage at a 15 PSI pressure differential.

### OPTIONAL FEATURES

- Handle operated design is available for use in space by suited astronauts.
- Available in hermetic and non-hermetic versions.
- Stainless steel or bi-metal shell hermetics are available.

### MARKETS

- International Space Station
- Space Shuttles

## Fiber Optic MTC Series

Consult your local Amphenol sales office for further information.



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
MTC - Fiber optic high speed transmission with MT optical ferrules within the high performance MIL-DTL-38999 Series III connector.	MIL-DTL-38999 Series III type. Utilizes butt joint fiber optic technology.	Threaded coupling.	12 channel configuration with MT ferrules is typical. Also can be configured with 4, 8, 24 and 48 channels.	Connector performances are consistent with MIL-DTL-38999 Series III. (See Subminiature Cylindrical Section) Optical performance is maximized with MT ferrules. Typical insertion loss is 0.5 dB to 1.0 dB.

### OPTIONAL FEATURES

- Any of the shell styles of Tri-Start, MIL-DTL-38999 Series III are offered for incorporation of MT fiber optics. (See Subminiature Cyl. section for Tri-Start features and options).

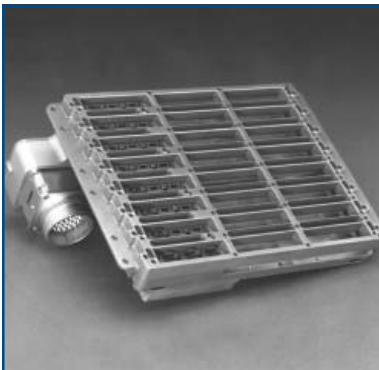
See also fiber optic VME P0 MT connector, page 49.

### MARKETS

- Military Aerospace
- Military Vehicles
- Communications
- Commercial Aircraft
- Medical Equipment

## Optical Backplane Interconnect Systems with MT Ferrules

Consult your local Amphenol sales office for further information.



APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
Electro-optical backplane interconnect systems for advanced avionics systems high speed optical/digital signal processing. Available in SEM-E or custom form factors. Integrates the total electrical and optical rack interconnect needs into one discreet package.	Utilizes MT optical ferrules and ribbon cable routing.	For mounting to printed circuit boards. Ribbon cable routing allows programming flexibility - thus rendering the entire system easily upgradeable.	12 channel configuration with MT ferrules is typical. Also can be configured with 2, 8, 12, 24 and 48 channels.	Ruggedized LRM housings. Typical insertion loss is 0.5 dB to 1.0 dB.

### OPTIONAL FEATURES

- Designs are per customer requirements.
- Also see other Backplane Systems that can incorporate fiber optics on pages 50 and 55.

### MARKETS

- Military Aerospace
- Military Vehicles
- Communications
- Commercial Aircraft
- Medical Equipment