

# Fiber Optic Products, cont.

## Hermaphroditic Fiber Optic Connectors

Consult your local Amphenol sales office for further information.



HQM Hermaphroditic Connector



HDM Hermaphroditic Duplex Miniature



HLM Hermaphroditic Lensed Multiway

APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
Fiber optic transmission interconnects for semi to harsh environments, indoor and outdoor. All three styles eliminate the need for polarizing the assemblies or using adapters. <b>HQM</b> - fully hermaphroditic with an active receptacle option. <b>HDM</b> - lightweight, smaller design, fully hermaphroditic. <b>HLM</b> - fully hermaphroditic, for extreme harsh environments where cost and space are factors and lensing is preferred.	All three types are produced with butt joint fiber optic technology which provides for lower insertion losses.	All are bayonet coupling. HMFM is one-piece construction. HDM and HLM have removable shell components to facilitate cleaning.	All are available in 2 channels with multi-mode and single mode termini.	Operating temp. from -55°C to +125°C for HMFM series. Operating temp. from -55°C to +85°C for HDM and HLM series. Typical insertion losses: HMFM at 0.3 dB HDM at 0.3 dB HLM at less than 1.0 dB. Rated at IP68 mated for environmental sealing.

### OPTIONAL FEATURES

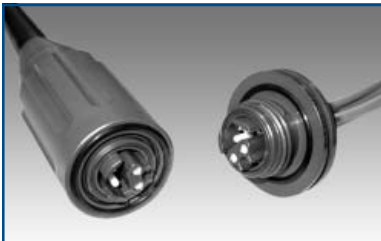
- Interface with a wide range of rugged fiber optic cables.
- HQM has plug and jam nut receptacle styles. HDM and HLM have plug and panel mount receptacle styles. Over molded version available in HLM series.
- Choice of materials and platings.

### MARKETS

- Communications
- Radar Systems
- Robotics
- Military Vehicles
- Mining & Offshore

## TFOCA<sub>two</sub> Connectors

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APPLICATION	STANDARDS/ REQUIREMENTS	COUPLING/ MOUNTING	CONTACT TERMINATION	PERFORMANCE ENVIRON./ELECT.
TFOCA <sub>two</sub> Fiber optic high speed transmission for interoperability with legacy tactical operational centre fielded equipment. Uses sealed floating ceramic ferrule system and a one-piece monobloc construction.	Put on the approved supplier list by the US Army Communications Div. (CECOM) for harsh environment fiber optic interconnects to TFOCA-II® specifications. Listed as a source of supply on CECOM specification drawing A3302584.	Hermaphroditic design to enable daisy chaining of cables. Fully intermateable and intermountable with the TFOCA-II® series. Custom designed monobloc is easily removable with a dime, to allow optical terminal, plug body and internal coupling ring cleaning.	Available in 4 channels with multi-mode and single mode termini.	Attenuation <0.30 dB > 0.50 dB. Fibre types: 50/125um, 62.5/125um. Cable types: 5.5mm OD tactical four core - 035 or 3mm OD ruggedized simplex for -011. Temperature range -55°C to +85°C. Durability > 2000 matings. Materials: aluminum alloy in zinc cobalt olive drab plated finish. Tensile load: 1780N. Water pressure: 1.5M immersion, 1 hr. MIL-C-83526/12/13.

### OPTIONAL FEATURES

- Dime coin/screwdriver fit nut - turn once to easily remove monobloc for easy cleaning.
- Molded rubber boot for strain relief of cable.
- Arctic grip coupling nut.
- Cadmium plated/anodise finishes available on request.

### MARKETS

- U.S. Army, Navy and Marine Corp military tactical deployments and military vehicles
- Communications
- Radar Systems
- Military Vehicles