

Military AEROSPACE

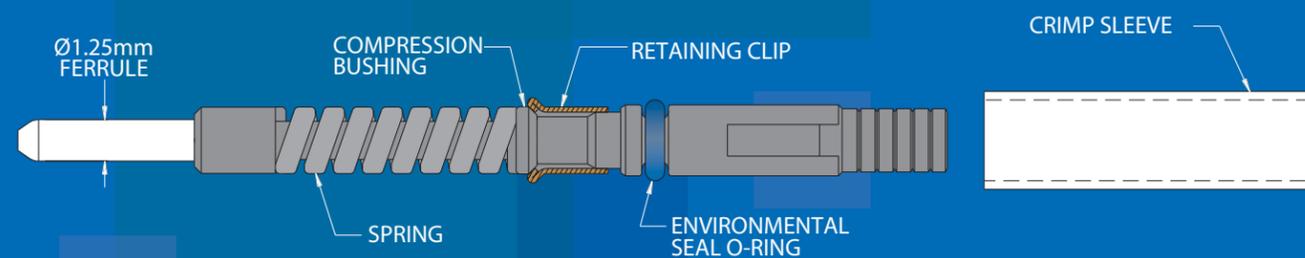


Glenair High Density (GHD)



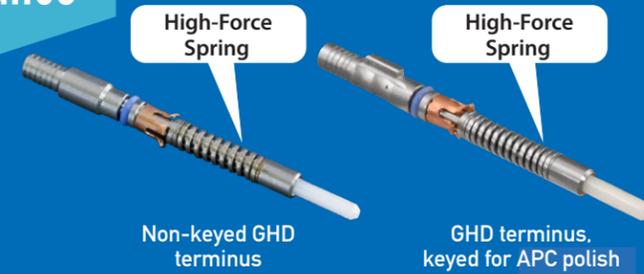
Glenair High Density (GHD) is the fiber optic connection system of choice for military aerospace applications that demand a smaller and lighter interconnect with outstanding optical and environmental performance. Glenair developed GHD to exceed MIL-DTL-38999 type fiber optic performance with an innovative terminus design that incorporates sealing and retention features to allow nearly double the density of standard mil-spec solutions.

- LOW MASS
- DYNAMIC VIBRATION AND SHOCK RESISTANCE
- EXTREME TEMPERATURE RESISTANCE
- ENVIRONMENTALLY SEALED
- CORROSION RESISTANCE
- FLAMMABILITY, TOXICITY, LOW-SMOKE
- INDIRECT LIGHTNING STRIKE
- EASE-OF-MAINTENANCE
- UNCOMPROMISED RELIABILITY



GHD's high-density cavity spacing is achieved with an innovative front-release terminus design that incorporates a high-force spring and compression bushing that enables low-loss performance even in high-vibration / high-shock applications.

Designing for Performance



GHD's shell-to-shell bottoming enables mating insert cavities to "square up" to each other in a repeatable manner, ensures consistent spring force at working height, and prevents movement between mating connectors during harsh shock and vibration exposure. The connector interface is sealed with a piston-style O-ring seal for robust environmental protection.



Guide Pins facilitate repeatable optical performance by ensuring alignment between mating cavities. Threaded-coupling connectors without guide pins can "sweep" relative to each other when torqued. Misaligned cavities will force the split ceramic alignment sleeve to work harder to bring mating termini into alignment. Stressed alignment sleeves can expand (and possibly break), resulting in high optical loss.

The GHD terminus features a high-force spring which optimizes return loss performance, but also ensures physical contact of mating ferrules and prevents end face separation in high shock and vibration environment.

GLENAIR QwikConnect

ALSO-AVAILABLE MIL-STANDARD TECHNOLOGY: **Tight-Tolerance MIL-DTL-38999 Series III type**



- Composite, aluminum and stainless steel shells available
- QPL size #16 MIL-PRF-29504 /4 and /5 precision ceramic termini
- Singlemode and multimode fiber, from 9/125 to 1000 microns
- Ultra-low insertion loss, <.50dB typical
- From 2 to 37 Termini
- Patented MIL-DTL-38999 fiber optic test probes and adapters