



## Glenair High Density (GHD) Fiber Optic Connection System



GHD plug connector with alignment sleeve retainer, and square flange receptacle

- Innovative #18 (1.25mm ferrule) front-release genderless termini accommodate 900 $\mu$  to 2.0mm jacketed fiber
- M85045/16 cable accommodation
- Single keying for APC polish available
- Better optical performance than D38999 with nearly double the density
- Precision alignment sleeve retainer with integrated guide pins
- Piston o-ring sealing—submersible design

**The system of choice for military and commercial air and space applications: Outstanding optical and environmental performance with nearly double the density of standard mil-spec designs**

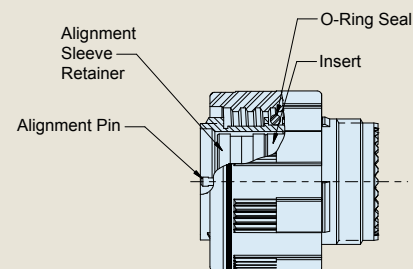


| Fiber Optic Pin Termini Specifications |              |                          |           |
|----------------------------------------|--------------|--------------------------|-----------|
| Assembly Dash Number                   |              | Fiber Size               | A Dia.    |
| Keyed                                  | Non-Keyed    | Core/Cladding            | [microns] |
| 181-047-1255                           | 181-056-1255 | 9/125 (Singlemode)       | 125.5     |
| 181-047-1260                           | 181-056-1260 | 9/125, 50/125, 62.5/125  | 126.0     |
| 181-047-1270                           | 181-056-1270 | 50/125, 62.5/125         | 127.0     |
| 181-047-1420                           | 181-056-1420 | 100/140                  | 142.0     |
| 181-047-1450                           | 181-056-1450 | 100/140                  | 145.0     |
| 181-047-1560                           | 181-056-1560 | 62.5/125/155 (Polyimide) | 156.0     |
| 181-047-1570                           | 181-056-1570 | 62.5/125/155 (Polyimide) | 157.0     |
| 181-047-1730                           | 181-056-1730 | 100/140/172 (Polyimide)  | 173.0     |
| 181-047-1750                           | 181-056-1750 | 100/140/172 (Polyimide)  | 175.0     |
| 181-047-2360                           | 181-056-2360 | 200/233                  | 236.0     |
| 181-047-2860                           | 181-056-2860 | 200/280                  | 286.0     |

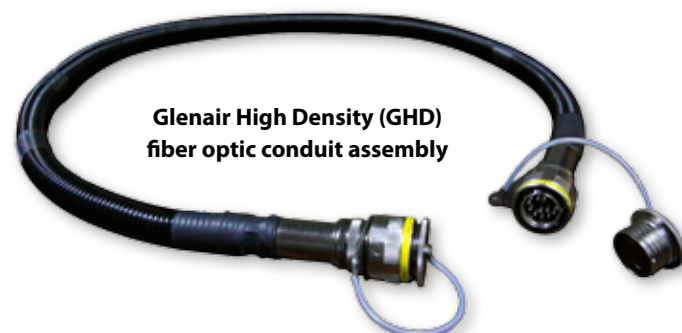
| GHD Fiber Optic Part Number Reference                          |                                               |
|----------------------------------------------------------------|-----------------------------------------------|
| Glenair Dwg. Number                                            | Product Description                           |
| 181-047                                                        | #18 Pin Terminus, Keyed for APC Polish        |
| 181-056                                                        | #18 Pin Terminus (non-keyed)                  |
| 181-058                                                        | #18 Dummy Terminus                            |
| 180-122 (05)                                                   | In-Line Receptacle Connector                  |
| 180-122 (06)                                                   | Plug Connector with Alignment Sleeve Retainer |
| 180-122 (08)                                                   | Jam Nut Mount Receptacle Connector            |
| 180-122 (H7)                                                   | Square Flange Receptacle with Round Holes     |
| 180-122 (S7)                                                   | Square Flange Receptacle with Slotted Holes   |
| * See fiber optic catalog for complete part number information |                                               |

| Pin Density Cross-Reference:<br>Glenair High Density Versus D38999 and M28876 |    |    |     |     |     |     |       |       |
|-------------------------------------------------------------------------------|----|----|-----|-----|-----|-----|-------|-------|
| Connector Style / Size                                                        | 11 | 13 | 15  | 17  | 19  | 21  | 23    | 25    |
| D38999 Cavity Count                                                           | 2  | 4  | 5   | 8   | 11  | 16  | 21    | 29/37 |
| M28876 Cavity Count                                                           | 2  | 4  | 6/8 | N/A | N/A | N/A | 18/31 | N/A   |
| GHD Cavity Count                                                              | 4  | 6  | 16  | 20  | 30  | 40  | 52    | 70    |

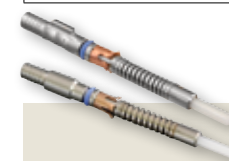
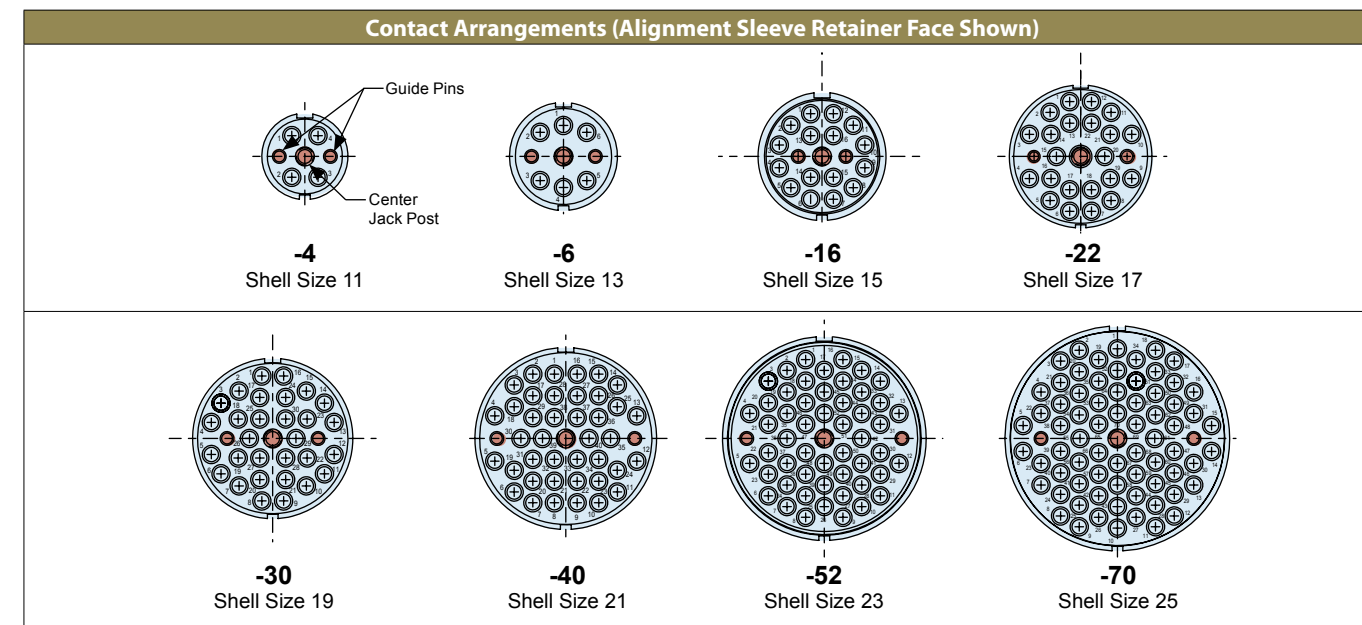
### Glenair High Density (GHD) Features



D38999 Series III Style Coupling  
Five Alternate Key Positions: A, B, C, D, E (N = Normal)

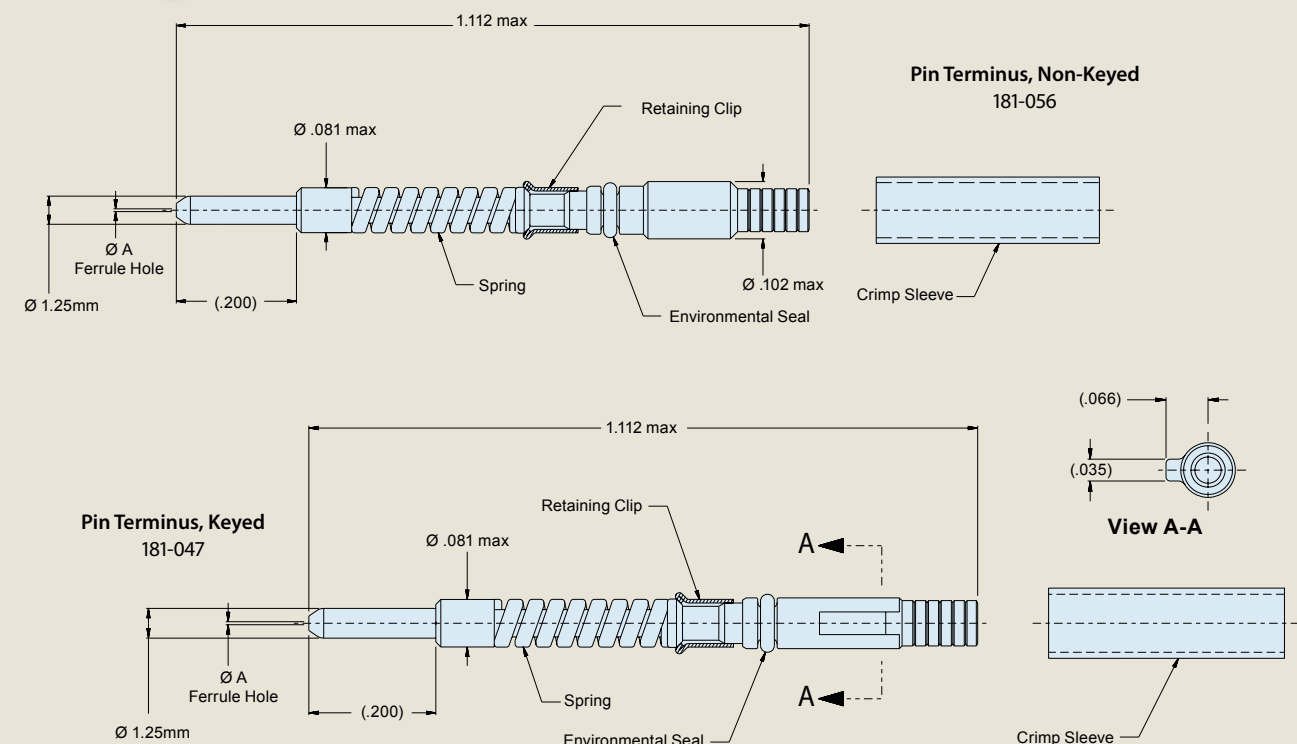


## Glenair High Density (GHD) Fiber Optic Connection System



Termini available in keyed and non-keyed styles

### Glenair High Density (GHD) Fiber Optic Termini Dimensional Data



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Glenair:

[181-047-1260](#) [181-047-1255](#) [181-056-1260](#) [181-058](#)