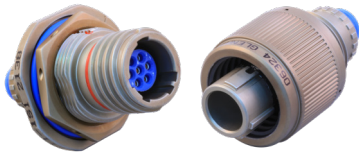


For applications requiring optimized size, weight, and fiber density

Glenair High Density (GHD)

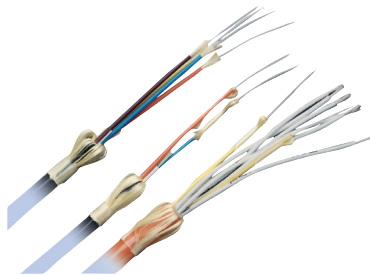
MATERIAL AND FINISH		
Code	Material	Finish Description
M	Aluminum Alloy	Electroless Nickel
MA		Electroless Nickel, Matte
MT		Nickel-PTFE, Gray
NF		Cadmium, Olive Drab
TZ		Tin-Zinc, Bronze-Gold
ZNU		Zinc-Nickel, Black
ZR	Composite	Zinc-Nickel, Black (RoHS)
XM		Electroless Nickel
XMT		Nickel - PTFE, Grey
XW		Cadmium, Olive Drab
XZN		Zinc-Nickel, Black
ZL		Stainless Steel
ZI	Marine Bronze	Passivate
AB		No Plating

**NEW SACRIFICIAL PLATING CADMIUM REPLACEMENT:**



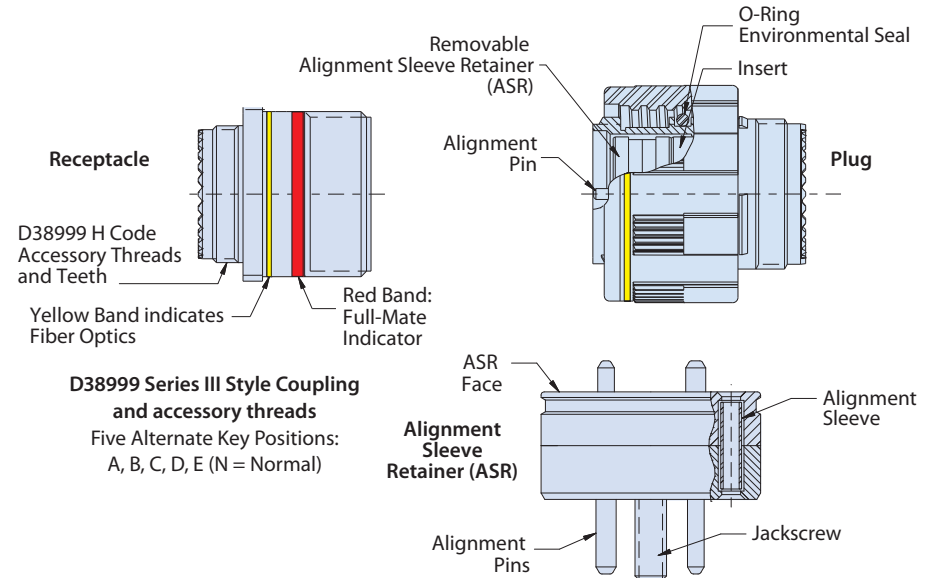
Tin-Zinc 500 (TZ) is the new Glenair gold-standard replacement for Cad over Nickel with excellent conductivity and 500 hours salt-spray resistance.

**BULK SIMPLEX FIBER OPTIC CABLE**



All Glenair fiber optic connection systems are supported with a complete range of bulk simplex cable choices including stepped and graded-index configurations as well as radiation and atomic oxygen resistant configurations for satellite applications.

**GLENAIR HIGH DENSITY (GHD) FEATURES**



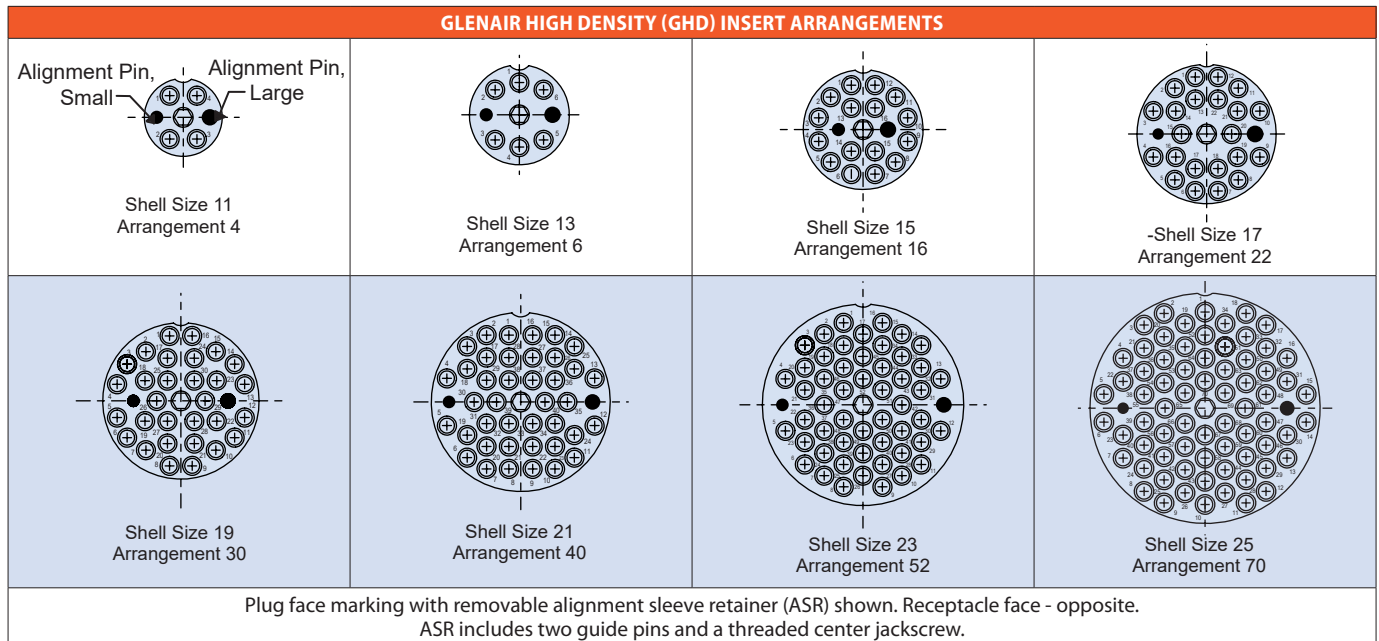
FIBER OPTIC CONNECTOR PERFORMANCE DATA	
Test Description	Performance Specifications
Optical Insertion Loss (MM)	0.35 dB Typical (50/125 and 62.5/125), restricted launch
Optical Insertion Loss (SM)	0.30 dB Typical (9/125)
Optical Return Loss	Better than -40 dB - PC Polish Better than -50 dB - Enhanced PC Polish
Operating Temperature	-55°C to +165°C (cable and epoxy dependent)
Temperature Humidity Cycling	-10°C to +65°C, 5 cycles
Altitude	15,000 ft [4572 m] for 1 hour. Optical assessment only.
Mating Durability	500 Cycles
Vibration - Random	49.5 Grms at ambient temperature. Z and Y axes, 4 hours per axis. Monitored for Discontinuity.
Mechanical Shock (Half-Sine Pulse)	300 G Peak for 3ms duration. 3 shocks in 6 directions. Monitored for Discontinuity.

# FRONT-RELEASE, GHD High-Density Fiber Optic Connection System



For applications requiring optimized size, weight and fiber density

Glenair High Density (GHD)



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

Crimp Sleeve is supplied with Terminus Assembly, and may be ordered separately.  
For terminus less crimp sleeve, omit C from end of part number (e.g. 181-056-1260)

GHD Fiber Optic Part Number Reference	
Glenair Dwg. Number	Product Description
181-056	Size #18 Pin Terminus, non-keyed (standard)
181-058	Size #18 Dummy Terminus
181-047	Size #18 Pin Terminus, Keyed for APC Polish
180-122 (06)	Plug Connector with Alignment Sleeve Retainer (standard)
180-122 (G6)	Plug Connector with Alignment Sleeve Retainer and EMI/RFI/Ground Spring
180-122 (05)	In-Line Receptacle Connector
180-122 (08)	Jam Nut Mount Receptacle Connector
180-122 (H7)	Square Flange Receptacle with Round Holes (standard)
180-122 (S7)	Square Flange Receptacle with Slotted Holes

\* See fiber optic catalog for complete part number information

PIN DENSITY COMPARISON: GHD VERSUS D38999 AND M28876 AND ARINC 801								
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	8	N/A	N/A	N/A	31	N/A
GHD Cavity Count	4	6	16	22	30	40	52	70
801 ARINC Cavity Count	2	4	6	8	12	16	24	32

## COMPATIBLE D38999 SERIES III FIBER OPTIC BACKSHELLS AND ACCESSORIES



440-030 Straight Backshell



189-016 Self-Locking Banding Backshell with Strain Relief



189-037 Self-Locking Banding Backshell with Bend Restrictor



377-014 Self-Locking Convoluted Tubing Adapter, Composite



189-038 Composite Adapter for Helical Convoluted Tubing