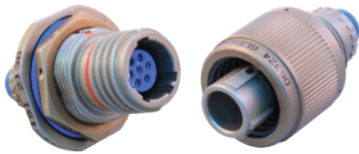


For applications requiring optimized size, weight, and fiber density

Glenair High Density (GHD)

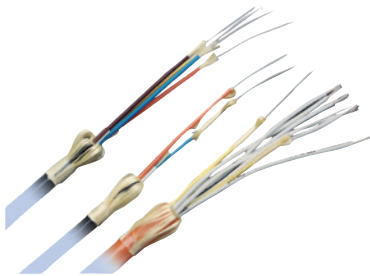
MATERIAL AND FINISH		
Code	Material	Finish Description
M	Aluminum Alloy	Electroless Nickel
MA		Electroless Nickel, Matte
MT		Nickel-PTFE, Gray
NF		Cadmium, Olive Drab
TZ		Tin-Zinc, Bronze-Gold
ZNU		Zinc-Nickel, Black
ZR	Zinc-Nickel, Black (RoHS)	
XM	Composite	Electroless Nickel
XMT		Nickel - PTFE, Grey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

NEW SACRIFICIAL PLATING CADMIUM REPLACEMENT:



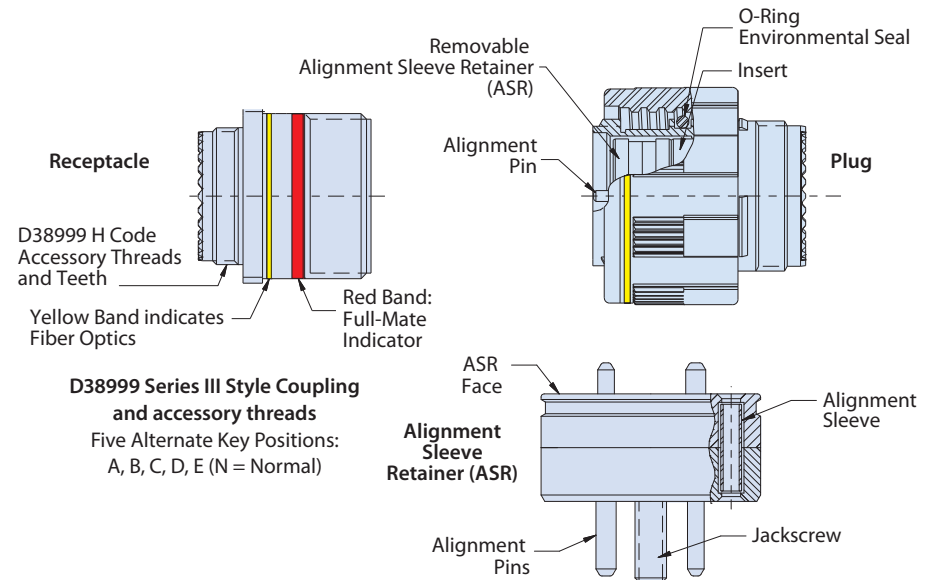
Tin-Zinc 500 (TZ) is the new Glenair gold-standard replacement for Cad over Nickel with excellent conductivity and 500 hours salt-spray resistance.

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



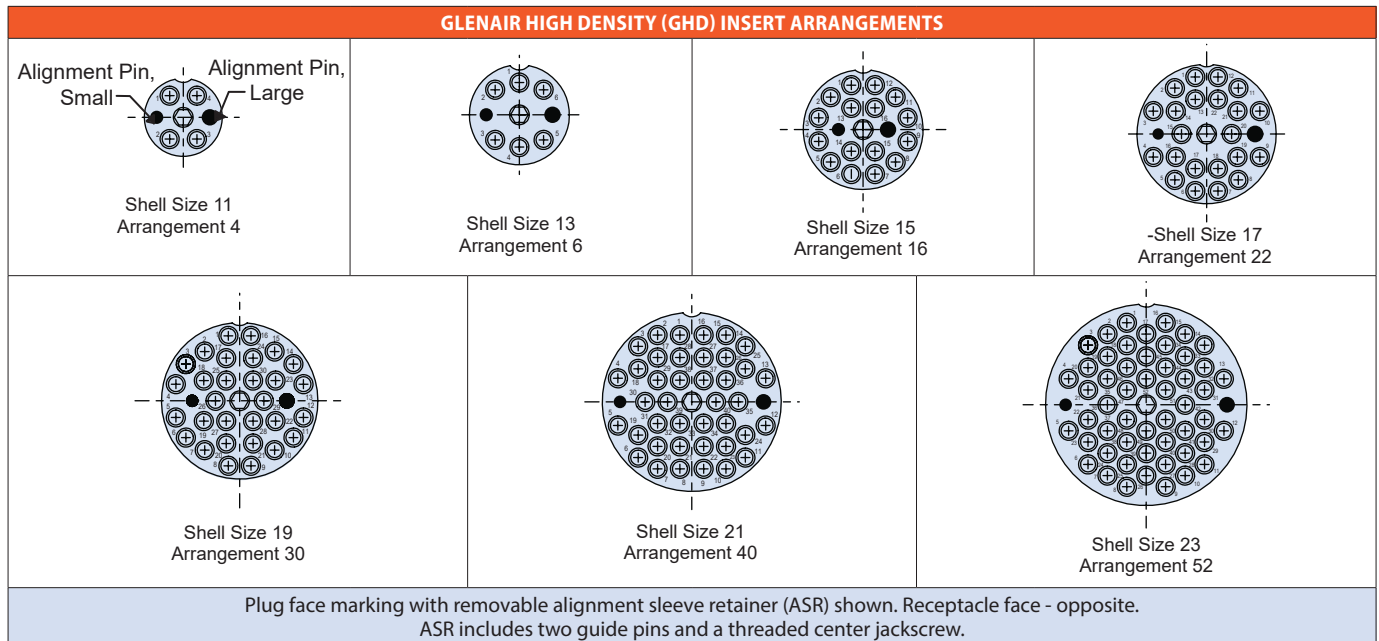
FIBER OPTIC CONNECTOR PERFORMANCE DATA	
Test Description	Performance Specifications
Optical Insertion Loss (MM)	0.35 dB Typical (50/125 and 62.5/125), restricted launch
Optical Insertion Loss (SM)	0.30 dB Typical (9/125)
Optical Return Loss	Better than -40 dB - PC Polish Better than -50 dB - Enhanced 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		
181-047-1253C	181-056-1253C	9/125 (Singlemode)	125.3
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
181-047-1315C		15/130 (Singlemode)	131.5
181-047-1420C	181-056-1420C	100/140	142.0
181-047-2250C		200/220	225.0
	181-056-2310C	200/230	231.0
	181-056-4350C	400/425	435.0
	181-056-4480C	400/440	448.0

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
ARINC 801 Cavity Count	2	4	6	8	12	16	24	32
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	N/A

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