

MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



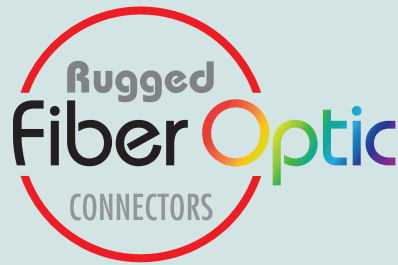
Glenair
SIGNATURE SERIES



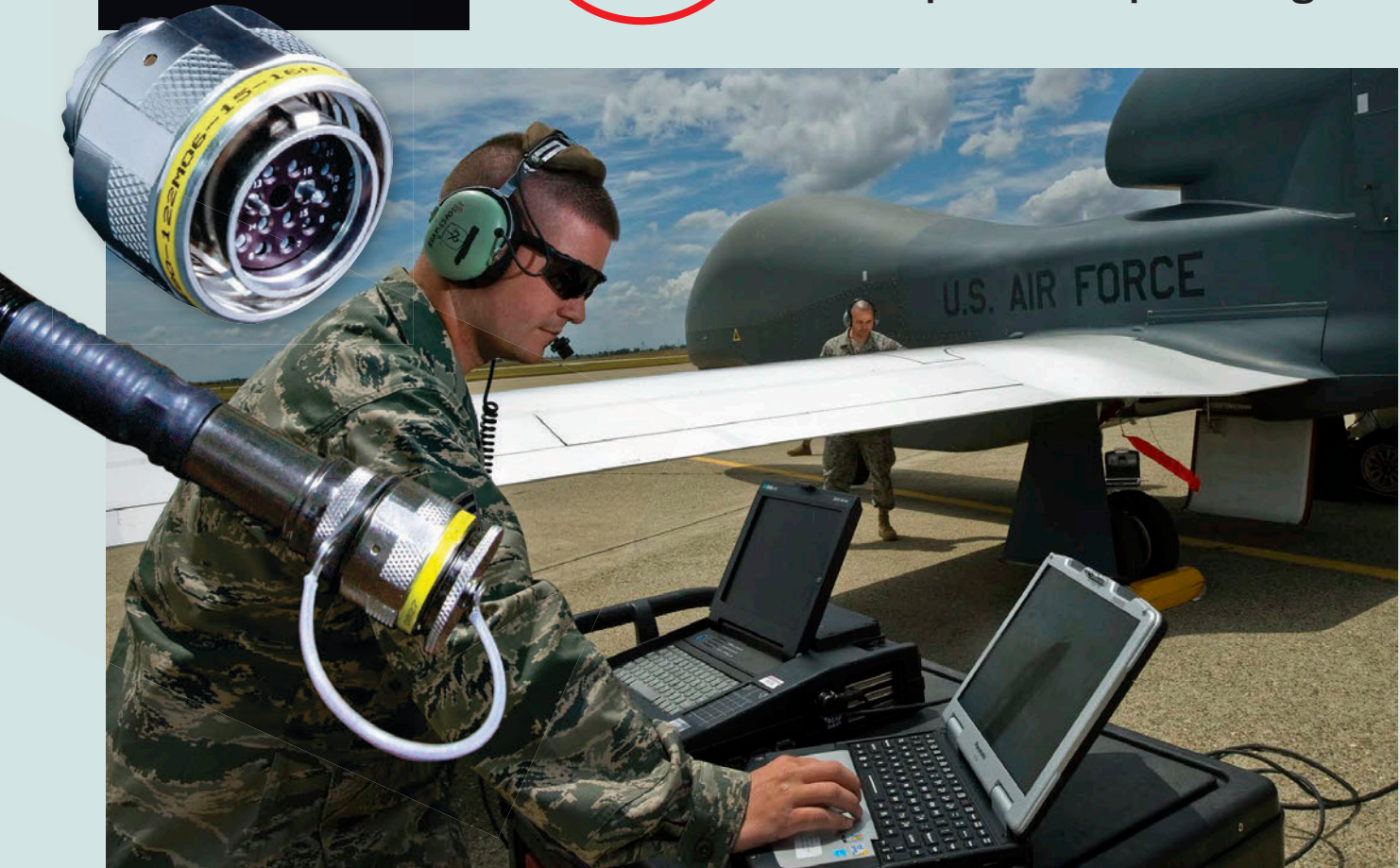
Glenair High Density (GHD) Fiber Optic Datalinks

Double the Density of D38999 Fiber Optic Solutions

GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS



Glenair High Density (GHD): nearly double the density of standard mil-spec fiber optic designs



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, butt-joint solutions.



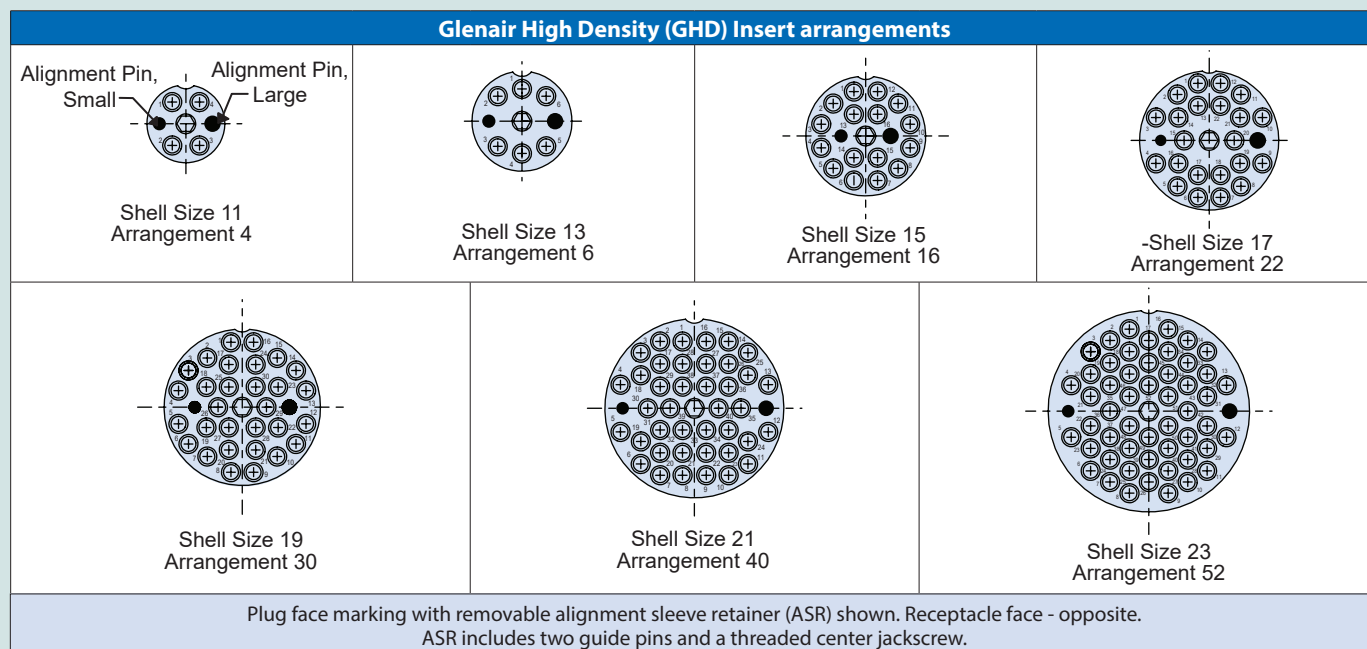
GHD plug connector with alignment sleeve retainer, and square flange receptacle. Termini available in keyed and non-keyed styles

- Innovative #18 (1.25mm ferrule) front-release genderless termini accommodate 900 μ to 2.0mm jacketed fiber
- M85045/16 cable accommodation
- Composite, aluminum or stainless steel shells
- Single key termini for APC polish available
- Better optical performance than D38999 with nearly double the density
- Precision alignment sleeve retainer with integrated guide pins

SIZE- AND WEIGHT- SAVING Glenair High Density (GHD)



Signature HD fiber optic connection system



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

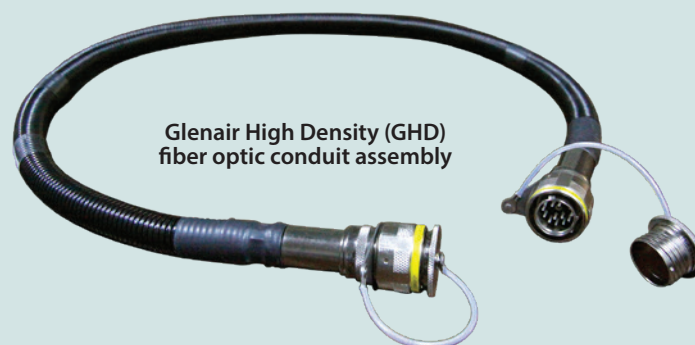
Crimp Sleeve is supplied with Terminus Assembly, and may be ordered separately.
For terminus less crimp sleeve, omit **C** from end of part number (e.g. **181-056-1260**)

GHD Fiber Optic Part Number Reference	
Glenair Dwg. Number	Product Description
181-047	#18 Pin Terminus, Keyed for APC Polish
181-056	#18 Pin Terminus, non-keyed (standard)
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

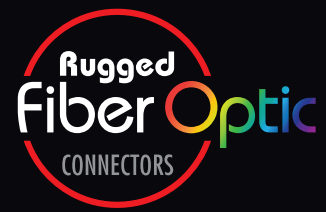
Pin Density Comparison: GHD Versus D38999 and M28876 and ARINC 801								
Connector Style / Size	11	13	15	17	19	21	23	25
D38999 Cavity Count	2	4	5	8	11	16	21	29/37
ARINC 801 Cavity Count	2	4	6	8	12	16	24	32
M28876 Cavity Count	2	4	8	N/A	N/A	N/A	31	N/A
GHD Cavity Count	4	6	16	22	30	40	52	N/A

Table I: Material and Finish		
Code	Material	Finish Description
M	Aluminum Alloy	Electroless Nickel
MT		Nickel - PTFE, Grey
NF		Cadmium, Olive Drab
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
Z1		Passivate

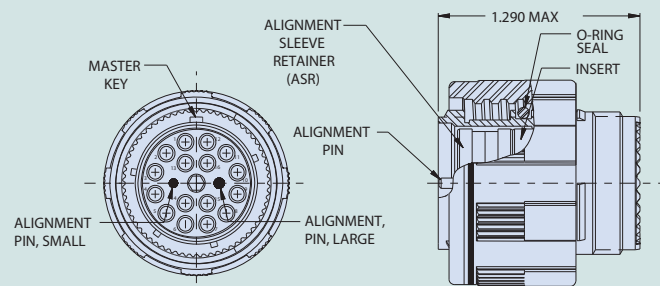


SIZE- AND WEIGHT- SAVING Glenair High Density (GHD)

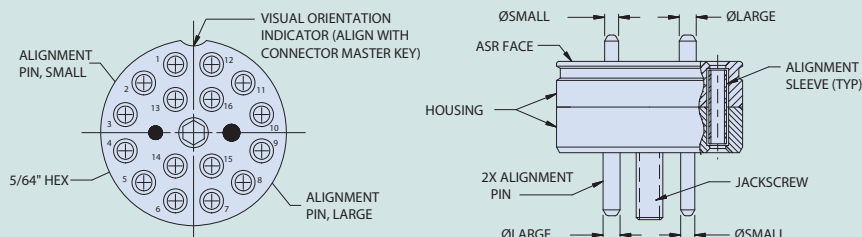
Signature HD fiber optic connection system How to order connectors



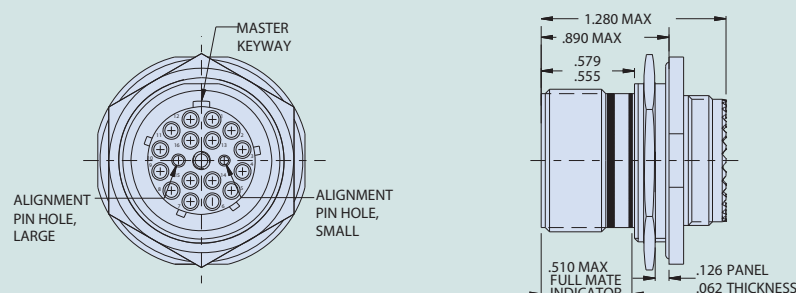
Part Number Development						
Sample Part Number	180-122	NF	06	-15-16	N	C
Series / Basic Part No.	Glenair High Density Fiber Optic Connector					
Material/Finish	See Material/Finish Table					
Connector Style	06 = Plug with Alignment Sleeve Retainer					
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52					
Alternate Key Position*	A, B, C, D, E, N = Normal					
O-Ring Option	C = Conductive O-Ring Omit = Standard O-Ring					



Part Number Development			
Sample Part Number	180-122	ASR	-15-16
Series / Basic Part No.	Glenair High Density Fiber Optic Connector		
Connector Style	ASR = Alignment Sleeve Retainer		
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52		



Part Number Development					
Sample Part Number	180-122	NF	08	-15-16	N
Series / Basic Part No.	Glenair High Density Fiber Optic Connector				
Material/Finish	See Material/Finish Table				
Connector Style	08 = Jam Nut Receptacle				
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52				
Alternate Key Position*	A, B, C, D, E, N = Normal				

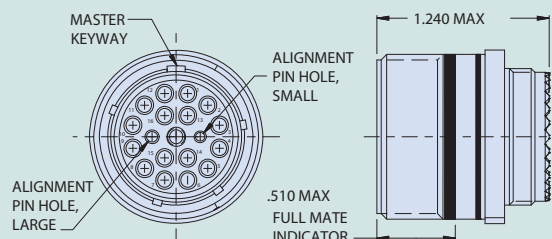


SIZE- AND WEIGHT-SAVING Glenair High Density (GHD)

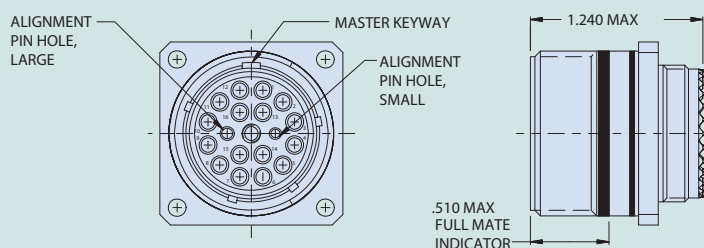


Signature HD fiber optic connection system How to order connectors

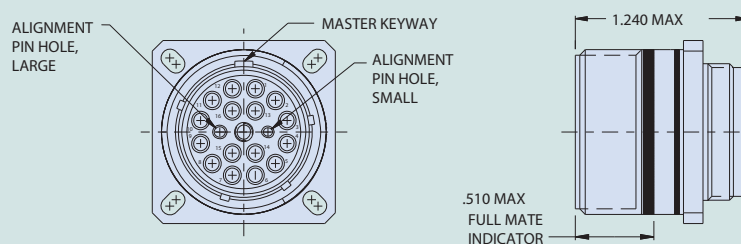
Part Number Development					
Sample Part Number	180-122	NF	05	-15-16	N
Series / Basic Part No.	Glenair High Density Fiber Optic Connector				
Material/Finish	See Material/Finish Table				
Connector Style	05 = In-Line Receptacle				
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52				
Alternate Key Position*	A, B, C, D, E, N = Normal				



Part Number Development					
Sample Part Number	180-122	NF	H7	-15-16	N
Series / Basic Part No.	Glenair High Density Fiber Optic Connector				
Material/Finish	See Material/Finish Table				
Connector Style	H7 = Wall Mount Receptacle with Round Holes				
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52				
Alternate Key Position*	A, B, C, D, E, N = Normal				



Part Number Development					
Sample Part Number	180-122	NF	S7	-15-16	N
Series / Basic Part No.	Glenair High Density Fiber Optic Connector				
Material/Finish	See Material/Finish Table				
Connector Style	S7 = Wall Mount Receptacle with Slotted Holes				
Shell Size/Insert Arr.	11-4, 13-6, 15-16, 17-22, 19-30, 21-40, 23-52				
Alternate Key Position*	A, B, C, D, E, N = Normal				





MISSION-CRITICAL INTERCONNECT SOLUTIONS

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