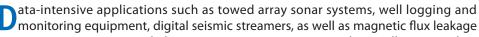


SeaKing[™] Fiber Optic

10K PSI open-face pressure rated fiber optic connectors, cables and jumpers—singlemode and multimode with low dB data loss



and ultrasonic inspection sensors used in intelligent pipeline inspection are ideally suited for ruggedized high-pressure fiber optics. Fiber optic interconnect systems deliver ultra high data bandwidth, immunity from RFI and other forms of electromagnetic interference, as well as reduced size and weight

compared to high-speed copper. Glenair SeaKing™ Fiber Optic solutions include harsh-environment overmolded cable assemblies, multibranch inside-the-box jumpers, as well as Glenair signature high-temp, high-vibration transceivers and optical-to-electrical media converters. Pressure-balanced oil-filled (PBOF) cable assemblies are also available for deep subsea applications.



- Overmolded and PBOF butt-joint assemblies
- Full hydrostatic qualification test report available
- Wide range of fiber and hybrid fiber/electric layouts
- Singlemode and multimode
- <1.0db data loss for singlemode

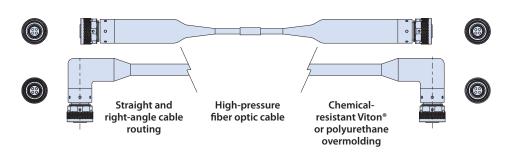




10K PSI open-face pressure-rated fiber optic connectors and cables

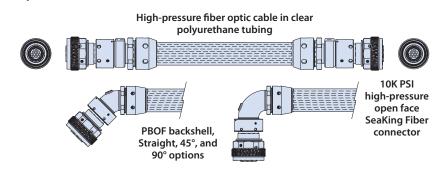
ENVIRONMENTAL OVERMOLDED FIBER OPTIC JUMPERS



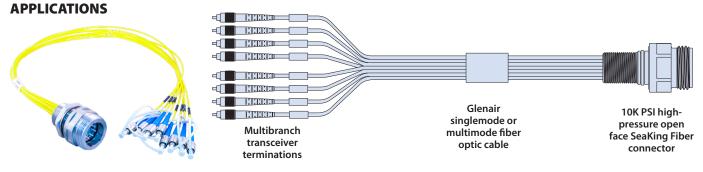


PRESSURE-BALANCED OIL-FILLED (PBOF) HIGH-PRESSURE FIBER OPTIC ASSEMBLIES



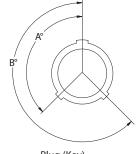


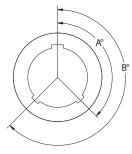
SEAKING™ BCR OR FCR TO COMMERCIAL FIBER OPTIC PIGTAIL ASSEMBLY FOR I/O-TO-BOARD MODULE



KEY AND KEYWAY POSITONS

Alternate Keyway Positions								
	Key Rotation							
Key Position	Α°	В°						
Normal (N)	150°	210°						
Α	75°	210°						
В	95°	230°						
С	140°	275°						





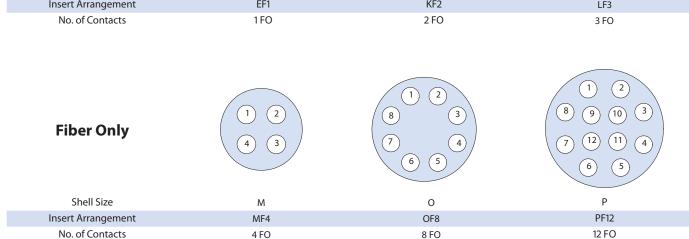
Plug (Key) Receptacle (Keyway)



DEEP WATER SeaKing™ Fiber Optic Fiber optic insert arrangements







Copper/Fiber	(1) (2) (3)	0 2 3 4 5 6 7 8 9 10	(1) (2) (3) (4) (5) (6)	2 (3) (4) (1) (6) (5) (9) (10) (11)
Shell Size	K	L	M	0
Insert Arrangement	KH12	LH28	MH24	OH56
No. of Fiber Contacts	1FO	2 FO	2 FO	5 FO
No. of Copper Contacts	2 #16	8 #22	4 #16	6 #16

Copper/Fiber	9 (1) (2) 8 (15) (16) (12) (3) (14) (13) (4) (6) (5)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Shell Size	Q	Q
Insert Arrangement	QH106	QH316
No. of Fiber Contacts	10 FO	3 FO
No. of Copper Contacts	6 #16	16 #16

Contact Specifications								
Contact Size	#22	#16						
Amps	3	10						
Wire Gage Accommodation	22	16						

All contact arrangements are rated for 600 volts.

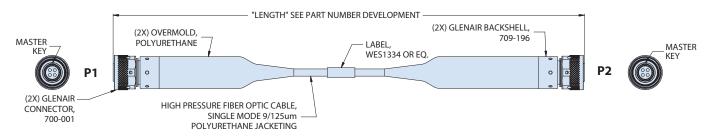
Contact arrangements are shown as face view of receptacle insert. Contact arrangements of plug inserts are reverse.





Overmolded assemblies with SeaKing[™] connectors or SeaKing[™] to commercial fiber optic connectors

SeaKing Fiber - How To Order											
Sample Part Number		FA09648	-MF4	-Z1	-N	-N	-xxxx	С	-xxxx	-CFM	
Basic Number		aKing Fiber Optic overmolded ug jumper/breakout assembly									
Shell Size & Insert Arrangement	See Glenair drav	ee Glenair drawing 709-098									
Shell Material	Z1 = 316 Stainle (Consult Factory Fe	ess Steel or Titanium or Peek Options)		=							
P1 Connector Key Arrangement	(N, A, B, C)	(N, A, B, C)									
P2 Connector Key Arrangement	(N , A , B , C) (1 = Blunt End C	able, Less P2 Connector, Bac	kshell, & (Overm	old)						
Length In Inches	See Standard To	lerance Table									
Pressure Cap Option		C = Provided With Pressure Caps N = No Pressure Caps									
Serial Number	Glenair Use Opt	Glenair Use Optional, Omit For None									
CFM Option	Glenair Use Opt	ional, Omit For None									



NOTES

- Optical performance: insertion loss shall be <1.0dB when measured @ 1310nm wavelength. Insertion loss can be measured at 1550nm upon customer request.
- 2. Unit pack: 1 EA. In a bag and/or cardboard box, label package iaw illustration.
- Molding process for high pressure applications shall be used for polyurethane overmolds.
- See drawing 700-001 for connector dimensions, materials, and finishes; see drawing 709-196 for backshell dimensions, materials, and finishes; see drawing 709-098 for available insert arrangement.
- 5. Wiring for each arrangement is one to one.
- 6. Cables over 240" (20ft) shall be shipped on reel
- 7. Pressure rating up to 3,000 PSI.

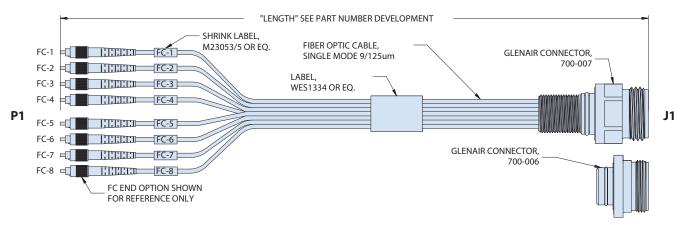
Standard-Tolerance							
Length	Tolerance						
Up to 24 In	+1 ln -0						
24 Up to 120 In	+3 ln -0						
120 Up to 600 In	+6 In -0						
600 Up to 1200 In	+12 ln -0						
1200 In and Up	+24 ln -0						





SeaKing[™] BCR or FCR to commercial fiber optic pigtail assembly for I/O-to-board module applications

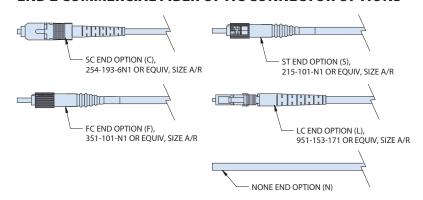
SeaKing Fiber - How To Order										
Sample Part Number	r		FA09649	-B	F	Z 1	-0F8	N	-XXXX	C
Basic Number	SeaKing Fibe assembly	r Optic ı	receptacle breakout							
J1 Option	$\mathbf{B} = BCR \mathbf{F}$	= FCR								
P1 Option	C = SC Leads L = LC Leads S = ST Leads		F = FC Leads N = None							
Shell Material	TC = Titaniur	n Z1 =	316 Stainless Steel							
Insert Arrangement		See Table I & II Insert Body Material: 316 SST								
Key Arrangement	A , B , or C ; N :	= norma	l,							
Length	In inches (Se	In inches (See Standard Tolerance Table)								
Pressure Cap Option	C = Provided N = No Press									



NOTES

- Optical performance:
 Insertion loss shall be <1.0dB when
 measured @ 1310nm wavelength. Insertion
 loss can be measured at 1550nm upon
 customer request.
- 2. Unit pack: 1 EA. In a bag and/or cardboard box, label package IAW illustration.
- 3. Mark reference designators as shown. Reference designator number shall match the contact number.
- 4. See drawing 700-006 and 700-007 for connector dimensions, materials, and finishes
- 5. Wiring for each arrangement is one to one.

END 2 COMMERCIAL FIBER OPTIC CONNECTOR-OPTIONS

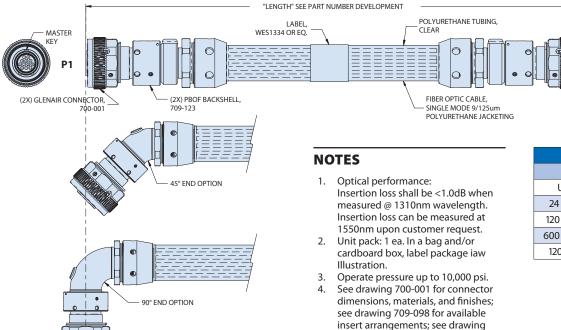






PBOF back-to-back SeaKing fiber optic assembly with straight, 45°, or 90° connectors

	HOW TO ORDER													
Sample Part Number		FA09650	-MF4	-Z1	-N	L	1	S	-N	L	1	S	-XXXX	C
Basic Number	SeaKing Fiber O point-to-point a													
Shell Size & Insert Arrangements	See Insert Arran	gements Table												
Shell Material	Z1 = 316 Stainle (Consult Factory	ss Steel For Titanium Or Peek O _l	otions)	•										
P1 Connector Key Arrangements	(N, A, B, C)													
P1 Backshell Style	L = Straight	M = 45 Degree	N = 90	0 Degre	ee									
P1 Fill Port Option	0 = No	0 = No 1 = Yes												
P1 Swivel/Fixed Option	F = Fixed	S = Swivel												
P2 Connector Key Arrangements	(N, A, B, C)	N, A, B, C)												
P2 Backshell Style	L = Straight	M = 45 Degree	N = 90	0 Degre	ee									
P2 Fill Port Option	0 = No	1 = Yes												
P2 Swivel/Fixed Option	F = Fixed	S = Swivel												
Length	In inches (See St	n inches (See Standard Tolerance Table)												
Pressure Cap Option	C = Provided Wit	h Pressure Caps	N = No Pr	essure	Caps									



Standard-Tolerance						
Length	Tolerance					
Up to 24 In	+1 ln -0					
24 Up to 120 In	+3 ln -0					
120 Up to 600 In	+6 ln -0					
600 Up to 1200 In	+12 ln -0					
1200 In and Up	+24 ln -0					

709-123 for backshell dimensions, materials, and finishes.

Wiring for each arrangement is one





PBOF single-ended fiber optic pigtail cable assembly with straight, 45°, and 90° routing

SeaKing Fiber - How To Order											
Sample Part Number		FA09781	-MF4	- Z 1	-N	L	1	S	-N	-XXXX	C
Basic Number	SeaKing Fibe out Plug Asse	r Optic PBOF Break- embly									
Shell Size & Insert Arrangements	See Glenair D	rawing 709-098									
Shell Material		C1 = 316 Stainless Steel Consult Factory For Titanium Or Peek Options)									
P1 Connector Key Arrangements	(N, A, B, C)										
P1 Backshell Style	L = Straight	M = 45 Degree	N = 90) Deg	ree						
P1 Fill Port Option	0 = No	= No 1 = Yes									
P1 Swivel/Fixed Option	F = Fixed	S = Swivel									
P2 Option	F = FC Leads N = None	L = LC Leads S = ST Leads									
Length In Inches	In inches (See	e Standard Tolerance	Table)								
Pressure Cap Option	C = Provided	With Pressure Caps	N =	= No F	ressu	ıre C	aps				

NOTES

- Optical performance:
 Insertion loss shall be <1.0dB
 when measured @ 1310nm
 wavelength. Insertion loss
 can be measured at 1550nm
 upon customer request.
- Unit pack: 1 ea. In a bag and/or cardboard box, label package iaw Illustration.
- 3. Operate pressure up to 10,000 psi.
- See drawing 700-001 for connector dimensions, materials, and finishes; see drawing 709-098 for available insert arrangements; see drawing 709-123 for backshell dimensions, materials, and finishes.
- 5. Wiring for each arrangement is one to one.

