# MISSION-CRITICAL





## **Underwater Connectors**

**Dry-Mate Subsea Connectors and PBOF Assemblies for** High-Pressure Oil & Gas Industry Interconnect Applications

**JULY 2022** 



- High-pressure, 10K PSI open-face subsea
- Ruggedized serial, high-speed, fiber optic, and power submersible connectors
- Ultra high-density solutions for ROVs and inline inspection applications
- Overmolded cable and PBOF assemblies

## OIL & GAS INDUSTRY INTERCONNECT SOLUTIONS







High-performance, high-pressure interconnect technologies with proven sealing performance in shipboard, downhole and underwater applications

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Hydrostatic Test Lab

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penetrators and feedthroughs





## Dry-mate Underwater/Subsea Connector Selection Guide

SIZE	CONNECTOR SERIES	RUGGEDNESS LEVEL	OPEN-FACE SEALING	DEPTH RATING
Large	Seaking POWER	3 Mission-Critical	Yes	10K PSI (700 Bar)
	SeaKing	3 Mission-Critical	Yes	10K PSI (700 Bar)
Standard		2 High-Reliability	Yes	10K PSI (700 Bar)
	Geo-Marine <sup>®</sup>	2 High-Reliability	No	5K PSI (450 Bar)
ature	Seaking Willor	2 High-Reliability	No	10K PSI (700 Bar)
Miniature		1 General Duty Harsh-Environment	No	3.5KPSI (240 Bar)
Micro	MICRO-PSI (CO)	3 Mission-Critical	Yes	10K PSI (700 Bar)





## Dry-mate Underwater/Subsea Connector Selection Guide

SHELL MATERIALS	ELECTRICAL RATING	SHELL OD RANGE	CABLE / CONTACT TYPES	APPLICATIONS	NOTES	
Super Duplex Stainless Steel or Titanium	5kV 350A Max	2.34" to 3.64"	Overmolded Solder	High-Voltage Power	API 16D and 17E-Compliant	
Stainless Steel, Titanium, or PEEK	600VDC 3–10A,	1.15" to 2.14"	PBOF, Overmolded Solder	High-Speed Datalink, RF, Fiber Optic, Serial Databus, Low- Voltage Power	Glass-Sealed Contacts Dual O-Ring Sealing	
Stainless Steel or PEEK Rubber Keyway	600VDC 5–18A	1.12" to 1.50"	PBOF, Overmolded Crimp, Solder	Serial Databus, Low-Voltage Power	55 Series Intermateable Full-Mate Inspection Port	
Stainless Steel	500VDC 5–23A	1.03" to 2.03"	Overmolded Solder	Serial Databus, Low-Voltage Power	Arctic Coupling Nuts HTHP Pipeline Inspection	
Stainless Steel or Titanium	500VDC 5–23A	.875" to 1.95"	Overmolded Crimp, Solder	High-Speed Datalink, RF, Serial Databus, Low- Voltage Power	High-Density From #12 to #30 AWG Wire Support	
Stainless Steel or Marine Bronze	750VDC- 1800VDC 5-23A	.5" to 1.562"	Overmolded Crimp, Solder	High-Speed Datalink, RF, Serial Databus, Low- Voltage Power	From 1 –130 Glass- Sealed Contacts	
Stainless Steel or Titanium	300VDC 3A	.25" to .32"	Prewired Pigtails, Cables Solder	High-Speed Datalink, Serial Databus, Low- Voltage Power	Glass- and Piston O-Ring Sealed Ethernet-Ready	



## 10K PSI OPEN-FACE SeaKing<sup>™</sup> 700 Dry-Mate Underwater Connectors

10K PSI / 700 Bar / 7000m open-face or mated, dual O-ring equipped, high-density, high-voltage, fiber optic and hybrid electrical/optical subsea connectors

SeaKing is an innovative underwater connector series that eliminates a broad range of mechanical design weaknesses found in many of today's high-pressure subsea connector families. From its double O-ring seals and retractable engaging nut, to its multi-keyed mating interface, the SeaKing underwater connector represents a far more reliable approach to subsea power and signal connectivity.

Ideally suited for deep water offshore oil & gas, military/defense, oceanographic research, and other harsh-environment subsea applications, the dry-mate connector series is built for optimal durability and reliability. Tested to 15,000 PSI (open face and mated), and equipped with integrated dual O-ring seals, marine bronze coupling nuts, corrosion-resistant stainless steel shells and high-pressure contact inserts with gold-plated signal contacts, special RF and fiber optic solutions, the Series 700 SeaKing is today's most advanced high-density signal and standard-density power underwater connector.

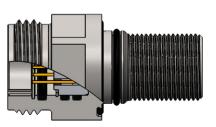
## SeaKing

- High density, small formfactor connector
- Dual O-ring seals ensure high-pressure performance for every leak path
- Signal, power, RF and optical insert arrangements
- Stainless steel with anti-galling marine bronze engaging nut, or cathodic delaminationfree PEEK
- Full-mate inspection ports
- Easy O-ring replacement
- Key and keyway polarization

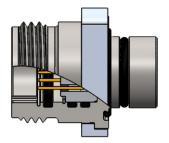
### **STANDARD CONFIGURATIONS**



#### Cable Connector Plug (CCP)



#### Bulkhead Connector Receptacle (BCR)



Flange Connector Receptacle (FCR)

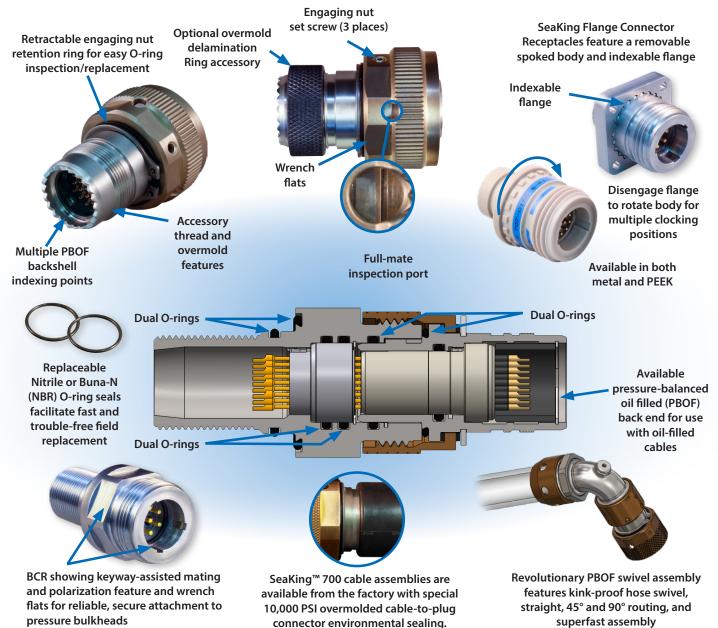
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**Sealing:** SeaKing 700 is the best-sealed subsea connector on the market. All critical interfaces, including bulkhead seals, glass-to-metal insert seals, mating interface bore seals, and face seals are fully redundant ensuring 10K PSI protection, even in the event of a single-seal failure.

**Mating:** SeaKing utilizes a modified UNC (coarse) mating interface with added clearance to reduce bio-fouling and facilitate rapid-advance mating. The marine bronze coupler on the plug is equipped with thread flats as well as knurling and is less susceptible to galling than standard steel engaging nuts. Polarized keys and keyways prevent both thread damage and mismating.

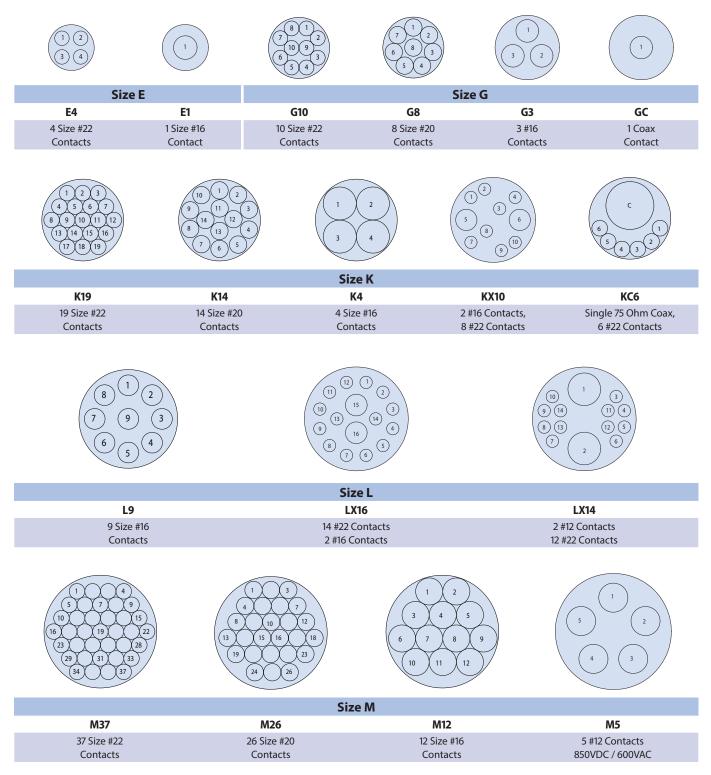
**Ease-of-Use:** Multiple PBOF backshell indexing points, indexable flange FCRs, full-mate inspection ports, retractable engaging nuts, and other features make SeaKing the most user-friendly subsea connector on the market.





**Contact arrangements and specifications** 

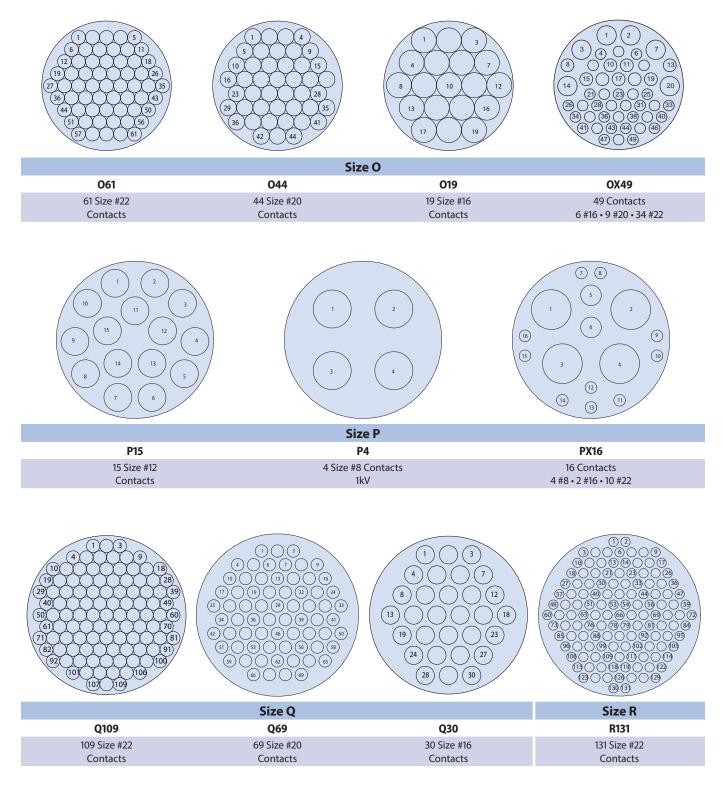
### SEAKING<sup>™</sup> CONTACT ARRANGEMENTS Mating face view of pin insert (socket insert IDs are reversed)





**Contact arrangements and specifications** 

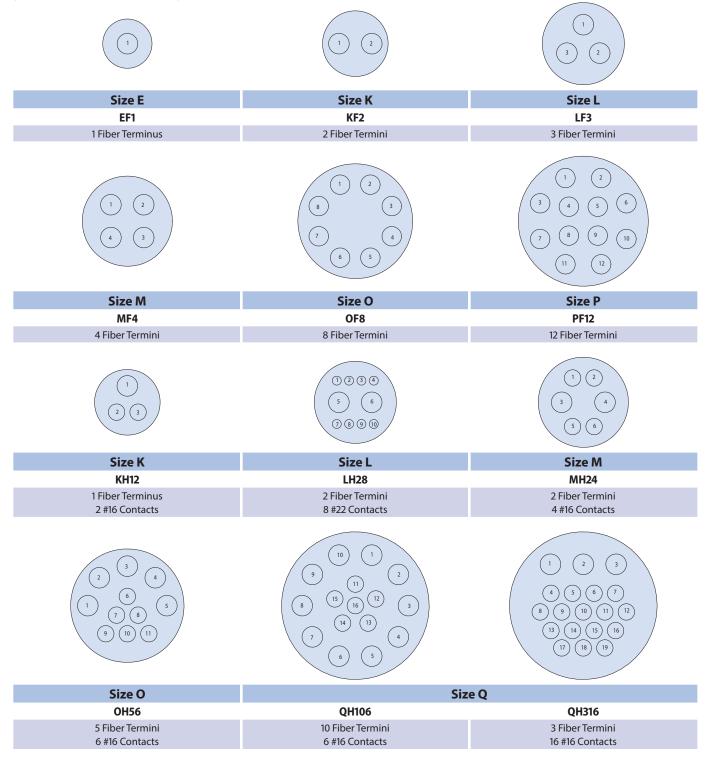
Consult factory for custom insert arrangements including a wide range of shielded RF microwave and high frequency contact configurations





**Contact arrangements and specifications** 

## **SEAKING™ FIBER OPTIC AND HYBRID FIBER-ELECTRICAL ARRANGEMENTS** Mating face view of pin insert (socket insert IDs are reversed)



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**Contact arrangements and specifications** 

Consult factory for custom insert arrangements including a wide range of shielded RF microwave and high frequency contact configurations

All high-density signal and standarddensity power contact arrangements are available across the complete range of connector styles (CCP, FCR, and BCR). High-speed Ethernet inserts as well as Pressure Balanced Oil Filled (PBOF) configurations and a purpose-designed family of pressure caps, accessories and backshells are also available, please consult the factory.

SeaKing<sup>™</sup> bulkhead connector receptacles (BCR) and flange connector receptacles (FCR) are equipped with highpressure glass-to-metal sealed inserts with solder contact wire termination and 10K PSI open-face rating. Cable connector plugs (CCP) utilize environmental O-ring sealed inserts and are rated to 10K PSI in the mated condition.

				Contact	Arranger	nent Table	
Shell	Contact Size						
Size	#22	#20	#16	#12	#8	Fiber Optic	Hybrid
Е	4		1			1	
G	10	8	3				1 Coax (only)
к	19	14	4			2	1 Coax • 6 #22 8 #22 • 2 #16 1 F/O • 2 #16
L			9			3	12 #22 • 2 #12 8 #22 • 2 #16 2 F/O • 8 #22
М	37	26	12	5		4	2 F/O • 4 #16
0	61	44	19			8	6 #16 • 9 #20 • 34 #22 5 F/O • 6 #16
Р				15	4 (1kV)	12	4 #8 • 2 #16 • 10 #22
Q	109	69	30				10 F/O • 6 #16 3 F/O • 16 #16
R	131						

	Current Rating (Amps)			
Contact Size	GRE Molded Inserts	Glass-to-Metal Sealed Inserts		
#22	5 Amps	3 Amps		
#20	7.5 Amps 5 Amps			
#16	13 Amps	10 Amps		
#12	23 Amps	17 Amps		
#8	50 Amps	35 Amps		
All contact arrangements are rate	ed for 600 VDC / 400 VAC unless ot	herwise specified.		

All contact arrangements are rated for 600 VDC / 400 VAC unless otherwise specified Solder cups are sized to accept maximum wire gauge according to the contact size

	SeaKing <sup>™</sup> Performance Specifications							
Pressure Rating	Plug: 10,000 PSI, mated condition Receptacles: 10,000 PSI mated and open face	per ISO 13628-6						
Electrical	600 V typical 5 GOhm insulation resistance at 500 VDC	per MIL-STD-202, Method 301 per MIL-STD-202, Method 302						
Materials	Salt Spray (corrosion) Humidity (steady state) Thermal Cycle	MIL-STD-202, Method 101 MIL-STD-202, Method 103 ISO 13628-6						



Series 700 10K PSI / 700 BAR / 7000 M SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies



700 Series connectors CCP, FCR and BCR



700-001 CABLE CONNECTOR PLUG (CCP) WITH SOLDER CUP TERMINATION



700-006 GLASS-TO-METAL SEAL OR 700-026 GLASS REINFORCED EPOXY, FLANGE CONNECTOR RECEPTACLE (FCR) WITH SOLDER CUP TERMINATION

	SeaKing - How To Order							
Sample Part Number		700	-001	-K19	-Z1	S	N	
<b>Product Series</b>	<b>700</b> = Sea	aKing™						
Shell Style		001 = cable connector blug (CCP)						
Shell Size-Insert Arrangement	(See pag	e 8 – 10)						
Shell Material	<b>Z1</b> = 316 <b>TC</b> = titar		s steel					
Contact Style	S = socke	<b>S</b> = socket						
Polarization	A, B, C, N	A, B, C, N = normal (see sales drawing for details)						

	SeaKing - How To Order							
Sample Part Nu	mber	700	-006	-019	- <b>Z</b> 1	Р	N	
Product Series	700 =	SeaKing™						
Shell Style	conne (FCR) <b>026</b> =	26 = GRE flange onnector receptacle						
Shell Size-Insert Arrangement	(See p	(See page 8 – 10)						
Shell Material	Z1 = 316 stainless steel TC = titanium							
Contact Style	P = Pin							
Polarization	A, B, C	<b>.</b> , <b>N</b> = norm	al (see s	ales dra	wing fo	or detai	s)	



### 700-007 GLASS-TO-METAL SEAL OR 700-027 GLASS REINFORCED EPOXY, BULKHEAD CONNECTOR RECEPTACLE (BCR) WITH SOLDER CUP TERMINATION

	SeaKing - How To Order							
Sample Part Number	700	-007	-K19	-Z1	Р	N		
Product Series	<b>700</b> = SeaKing™							
Shell Style	connector rece (BCR) <b>027</b> = GRE bulk	007 = GTMS bulkhead connector receptacle (BCR) 027 = GRE bulkhead connector receptacle						
Shell Size-Insert Arrangement	(See page 8 – 1	0)	-					
Shell Material	<b>Z1</b> = 316 stainle <b>TC</b> = titanium	Z1 = 316 stainless steel TC = titanium						
Contact Style	<b>P</b> = pin							
Polarization	<b>A</b> , <b>B</b> , <b>C</b> , <b>N</b> = nor	mal (see	e sales d	rawing f	or detai	ls)		

#### 700-010 BULKHEAD CONNECTOR FEED-THRU (BCF), INCONEL INSERT, 10K PSI OPEN FACE RATED

	SeaKing -	How To	Orde	r				
Sample Part Number	700-010	-M12	-Z1	Ρ	N	Ρ	N	-2
Product Series	<b>700-010</b> = SeaKing <sup>™</sup> bulkhead connector feed-thru (BCF)							
Shell Size- Insert Arrangement	(See page 8 – 10	))						
Shell Material	<b>Z1</b> = 316 stainle <b>TC</b> = titanium	Z1 = 316 stainless steel TC = titanium						
Side A, Contact Type	$\mathbf{P} = pin$ $\mathbf{S} = so$	ocket		-				
Side A, Polarization	<b>A</b> , <b>B</b> , <b>C</b> , <b>N</b> = norr (see polarizatior		ogs. 6-	7)				
Side B, Contact Type	$\mathbf{P} = pin$ $\mathbf{S} = so$	$\mathbf{P} = pin$ $\mathbf{S} = socket$						
Side B, Polarization	<b>A</b> , <b>B</b> , <b>C</b> , <b>N</b> = norr	<b>A</b> , <b>B</b> , <b>C</b> , <b>N</b> = normal (see sales drawing for details)						
Bulkhead Thickness	<b>1</b> = 1.00 - 1.50 <b>4</b> = 2.50 - 3.00			-				-

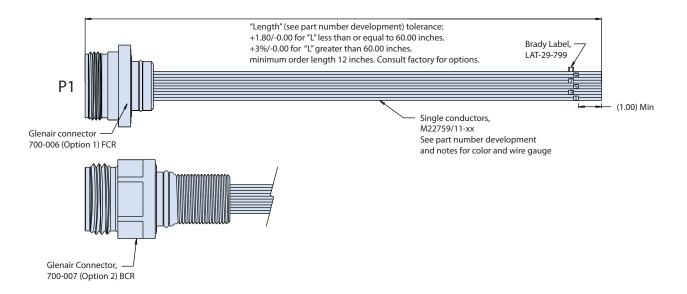




Single-ended connector receptacle pigtail assembly

#### 7071-0012 FLANGE OR BULKHEAD CONNECTOR RECEPTACLE PIGTAIL ASSEMBLY

SeaKing - How To Order								
Sample Part Num	nber	7071-0012	-1	M12	-Z1	-12	Α	N
Product Series	<b>7071-0012</b> = SeaKing <sup>™</sup>							
Receptacle Style	1 = 700-006 (GTMS FCR)	<b>2</b> = 700-007 (GTMS BCR)	-					
	<b>3</b> = 700-026 (GRE FCR)	<b>4</b> = 700-027 (GRE BCR)						
Insert Arrangement	(See page 8 – 10)							
Material/Finish	Z1 = 316 stainless steel TC =	titanium <b>K</b> = glass-reinforced	PEEK					
Cable Length	In inches							
Wine Colonian	A = all white						2	
Wire Coloring	<b>B</b> = 10 color repeating; IAW M	IL-STD-681						
Polarization	A, B, C, N = normal (see sales of	drawing for details)						-



Alternate	Key Positio	ns
	Key Ro	otation
Key Position	A°	B°
Normal ( <b>N</b> )	150°	210°
А	75°	210°
В	95°	230°
с	140°	275°

#### NOTES

- 100% electrically tested for shorts, dielectric withstanding voltage (500Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell at 500Vdc/200 megohms min. (IAW-STD-202, Method 302)
- 2. Quantity and gauge of conductors determined by insert arrangement. All cavities to be populated with largest gauge wire.
- 3. All solder cup cavities are isolated with M23053/8 heat shrink tubing.



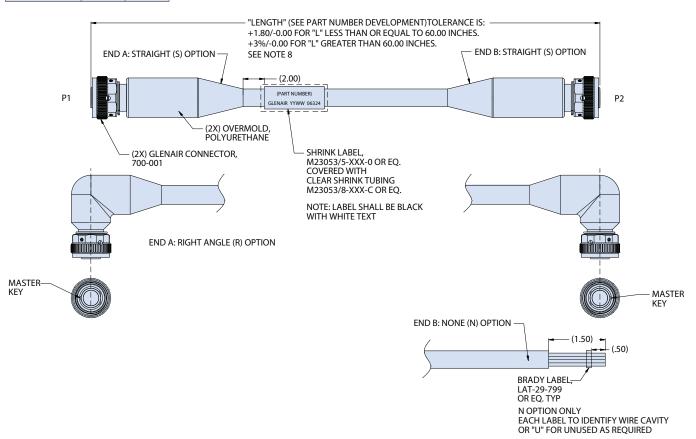


Single ended or back-to-back, overmolded cable

SeaKing - How To Order									
Sample Part Number		7071-0007	-S	R	<b>Z1</b>	-K19	N	-24	11
Series	<b>7071-0007</b> = SeaKing <sup>™</sup> cable connector plug (CCP) assembly	-							
P1	<b>R</b> = right angle <b>S</b> = straight								
P2	R = right angle N=none S = straight								
Shell Material/Finish	Z1 = 316 stainless steel TC = titanium	Z1 = 316 stainless steel TC = titanium K = glass-reinforced PEEK							
Insert Arrangement	(See page 8 – 10)					-			
Polarization	A, B, C, N = normal (see sales drawing for c	letails)					,		
Cable Length	In inches								
Cap Options	10, 11, 20, 21; omit for none								

Alternate Key Positions					
	Key Rotation				
<b>Key Position</b>	A°	B°			
Normal ( <b>N</b> )	150°	210°			
Α	75°	210°			
В	95°	230°			
С	140°	275°			

Sym Description			
Protective cap, no lanyard			
Protective cap, with lanyard			
Pressure cap, no lanyard			
Pressure cap, with lanyard			





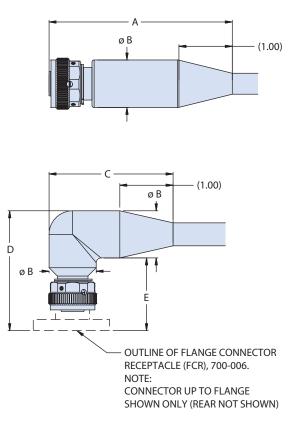


Single ended or back-to-back, overmolded cable

SIZE	Α	В	С	D	E
E	4.55	0.765	2.88	2.93	2.165
G	4.55	0.875	2.94	3.11	2.235
K	4.55	1.00	3.00	3.16	2.105
L	4.55	1.125	3.00	3.29	2.165
М	5.05	1.250	3.38	3.43	2.18
0	5.05	1.500	3.5	3.55	2.05
Р	5.05	1.625	3.68	3.75	2.125
Q	5.05	1.750	3.88	3.93	2.18
R	5.05	1.875	3.94	3.99	2.115

#### NOTES

- 100% electrically tested for shorts, dielectric withstanding voltage (at 500Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell) at 500Vdc/200 megohms min. IAW MIL-STD-202, Method 302).
- 2. Unit pack: 1 ea. In poly bag, heat-sealed. Include dust cap. Tag and bag per illustration.
- 3. Max pressure rating 10000 PSI.
- 4. For connector dimensions, materials, finishes, refer to drawing 700-001.
- 5. For insert arrangements refer to drawing 709-099 contact manufacturer for builds with combo insert arrangements.
- 6. Double ended cordsets are wired one to one (ex. pin 1 to pin 1, 2 to 2 etc).
- 7. Quantity and gauge of conductos determined by insert arrangement. All cavities to be pupulated with largest gauge wire.
- Marker label, M23053/5 or equivalent. Covered with clear tubing M@3053/18 or equivalent tubing shall be white with black text.
- Single conductors shall be identified with cavity indentifier or "U" for unused marker label, M23053/ 5 or equivalent convered with clear tubing M23053/18 or equivalent tubing shall be white with text.
- 10. Minimum order length is 24.00 inches. Consult fatory for orders longer 1200 inches (100ft)
- 11. All configurations are wired one to one.
- 12. Pressure rated cable. Polyurethane jacket wire AWG shall be per contact size.

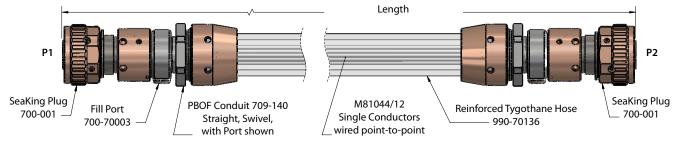




## 10K PSI OPEN-FACE SeaKing<sup>™</sup> PBOF

Wired and connectorized PBOF assemblies, fittings, and accessories

### WIRED / CONNECTORIZED PBOF CONDUIT ASSEMBLIES



SeaKing PBOF Wired Assembly - How To Order							
Sample Part Number		7071-0348	-K19	-L1S	-L1S	-N	-xxx
Base Part Number	<b>7071-0348</b> = SeaKing <sup>™</sup> P	BOF wired assembly					
Insert Arrangement P1 and P2		G10, G8, K19, K14, K4, KC6, L9, M37, M26, M12, O61, OX49, Q109, Q30, R131 (see catalog or dwg 709-099 fc					
	Angle Option	Fill Port	Swivel/	Fixed			
End Configuration P1	L = Straight         1 = Yes         S = Swivel           M = 45°         0 = No         F = Fixed           N = 90°         F = Fixed         F = Fixed						
	Angle Option	Fill Port		wivel/Fixe	d	]	
End Configuration P2 M = 45° N = 90°		1 = Yes 0 = No		<b>S</b> = Swive <b>F</b> = Fixed			
	Key Position	A°			B°		]
	N	150°		210°			
Key Orientation	Α	75°		210°			
	В	95°		230°			
	С	140°		275°			J
Cable Length	in Inches						

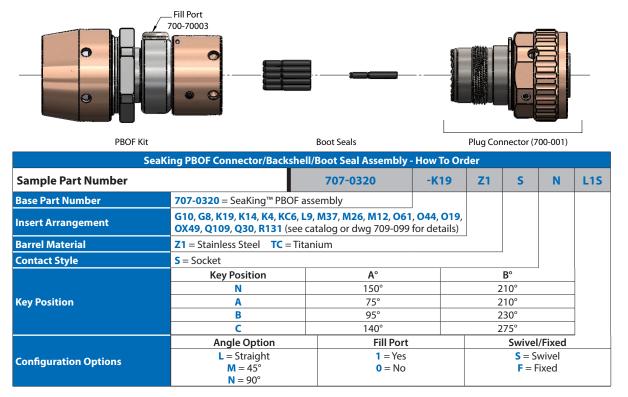


## <u>SERIES 700 10K PSI / 700 BAR / 7000 M</u> SeaKing™ High-Pressure Underwater Glenair. **PBOF Assemblies, Fittings, and Accessories**

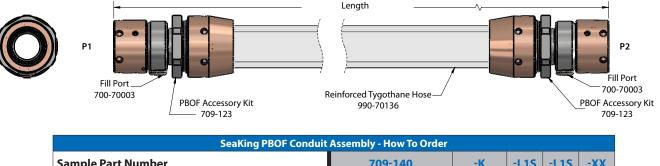


Boot seal assembly and unwired PBOF conduit

#### **CONNECTOR / BACKSHELL / BOOT SEAL ASSEMBLY**



### **UNWIRED PBOF CONDUIT ASSEMBLIES**



	searing i ser contaat						
Sample Part Number		709-140		-К	-L1S	-L1S	-X)
Base Part Number	<b>709-140</b> = SeaKing <sup>™</sup> PBC	DF conduit assembly					
Backshell and Tubing size	E, G, K, L, M, O, P, Q, R	, K, L, M, O, P, Q, R					
	Angle Option	Fill Port	Sw	Swivel/Fixed			
Backshell Configuration P1	L = Straight	<b>1</b> = Yes	S	S = Swivel			
	<b>M</b> = 45°	<b>0</b> = No	F	F = Fixed			
	<b>N</b> = 90°					J	
	Angle Option	Fill Port		Swi	vel/Fixe	d	
Backshell Configuration P2	L = Straight	<b>1</b> = Yes		S = Swivel			
	$M = 45^{\circ}$	<b>0</b> = No		F = Fixed			
	<b>N</b> = 90°						
Cable Length	in Inches						



## SERIES 700 10K PSI / 700 BAR / 7000 M Glenair. SeaKing<sup>™</sup> High-Pressure Underwater **PBOF Assemblies, Fittings, and Accessories**

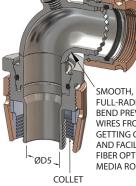
Assembly fittings and accessories

#### **REVOLUTIONARY PBOF SWIVEL HOSE ATTACHMENT ACCESSORIES**

Hose barb fittings for PBOF assemblies are the perennial weak link in subsea oil & gas applications. Kinked and twisted hoses, leaky fittings, corroded hose clamps, and other performance problems characterize most existing solutions. The Glenair PBOF swivel hose attachment for SeaKing<sup>™</sup> connectors solves these problems and more. Designed from the sea floor up to perform flawlessly and reliably, this revolutionary attachment puts an end to the long list of field maintenance problems associated with oil-filled cable applications.

- Straight, 45°, and 90° "full radius" angle and profile hose routing
- Hose angle adjustment feature eliminates risk of oil leakage
- Corrosion-resistant materials used throughout
- Threaded couplers with safety set-screws for fail-safe leak and decoupling protection—no special tools required for assembly
- Compact PBOF compression fitting with 340° swivel action hose for an extra degree freedom of routing in compact situations
- Support for the broad range of hose diameters and wall thicknesses

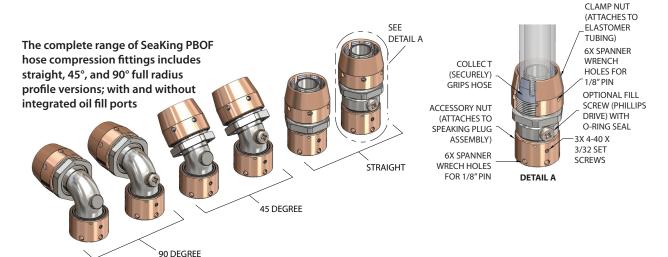
SeaKing PBOF Attachment Accessory Kits - How To Order							
Sample Part Number		709-123	к	-L	1	S	
Product Series	<b>709-123</b> = SeaKing <sup>™</sup> PBOF accessory						
Shell Size	E, G, K, L, M, O, P, Q, R						
Angular Function	L = Straight M	$L = Straight M = 45^{\circ} N = 90^{\circ}$					
Fill Port Option	<b>0</b> = No fill port <b>1</b> = With fill port						
Swivel/Fixed Option	S = Swivel F = I	Fixed					



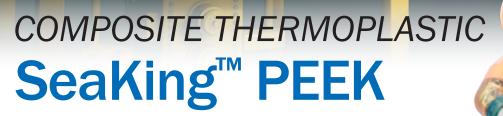
FULL-RADIUS BEND PREVENTS WIRES FROM GETTING CUT AND FACILITATES FIBER OPTIC MEDIA ROUTING

ACCESSORY TEETH MESH WITH TEETH ON BACK END OF PLUG ASSEMBLY. ALLOWING TUBING END OF PBOF TO BE CLOCKED IN DESIRED DIRECTION









## Glenair SeaKing Series 700 with 30% glassfilled PEEK composite thermoplastic shells for use in anti-cathodic delamination applications

SeaKing 700 is an innovative underwater connector series that eliminates a broad range of mechanical design weaknesses found in many of today's high-pressure



subsea connector families. From its double O-ring seals and retractable engaging nut, to its multi-keyed mating interface, the SeaKing underwater connector represents a far more reliable approach to subsea power and signal connectivity. The series is available in stainless steel, titanium, and PEEK composite plastic shell materials designed for galvanic compatibility in mixed material applications, and superior corrosion resistance durability and immunity from cathodic delamination. The SeaKing PEEK series shares all the same insert arrangements, wire support, cabling, and PBOF capabilities as metal versions. Discrete connectors, overmolded cables, and PBOF assemblies available

even hundrei

- Superior corrosion resistance, durability, and immunity from cathodic delamination
- Same high-pressure performance as stainless steel
- Lighter weight with lower deployment costs
- Zero magnetic signature
- Galvanically compatible with all metal materials



## SERIES 700 10K PSI / 700 BAR / 7000 M SeaKing™ PEEK Composite Thermoplastic 10K PSI Connectors



700 Series with non-metallic PEEK shells

#### 700-201 CABLE CONNECTOR PLUG (CCP), PEEK



SeaKing PEEK - How To Order							
Sample Part Nur	nber	700	-201	-M12	-K	S	N
Product Series	<b>700</b> = SeaKing <sup>™</sup>						
Shell Style		201 = non-metallic PEEK cable connector plug (CCP)					
Shell Size-Insert Arrangement	(See page 8 – 10)	(See page 8 – 10)					
Shell Material	<b>K</b> = glass-reinforced	K = glass-reinforced PEEK					
Contact Style	<b>S</b> = socket					-	
Polarization A, B, C, N = normal (see sales drawing for details)					-		
INK PSI available in s	maller shell sizes. Cont	tact factory for detai	lc				

10K PSI available in smaller shell sizes. Contact factory for details.

## 700-206 GLASS REINFORCED EPOXY OR GLASS HERMETIC SEAL INSERT, FLANGE CONNECTOR RECEPTACLES (FCR), PEEK



SeaKing PEEK - How To Order							
Sample Part Numb	er	700	-206	-E4	-К	Р	N
Product Series	<b>700</b> = SeaKing™						
Shell Style	Glass Hermetic Se 226 = non-metall	206 = non-metallic PEEK FCR, Glass Hermetic Seal Insert (GTMS) 226 = non-metallic PEEK FCR, Glass Reinforced Epoxy Insert (GRE)					
Shell Size-Insert Arrangement	(See page 8 – 10)						
Shell Material	K = glass-reinforced PEEK						
Contact Style	P = pin						
Polarization	A, B, C, N = normal (see sales drawing for details)					-	

10K PSI available in smaller shell sizes. Contact factory for details.

#### 700-207 GLASS REINFORCED EPOXY OR GLASS-TO-METAL SEAL INSERT, BULKHEAD CONNECTOR RECEPTACLE (BCR), PEEK

SeaKing PEEK - How To Order							
Sample Part Number		700	-207	-E4	-K	Р	N
Product Series	<b>700</b> = SeaKing™						
Shell Style	Glass Hermetic Se 227 = non-metall	207 = non-metallic PEEK BCR, Glass Hermetic Seal Insert (GTMS) 227 = non-metallic PEEK BCR, Glass Reinforced Epoxy Insert (GRE)					
Shell Size-Insert Arrangement	(See page 8 – 10)	(See page 8 – 10)					
Shell Material	<b>K</b> = glass-reinforce	K = glass-reinforced PEEK					
Contact Style	P = pin						
Polarization	A, B, C, N = normal (see sales drawing for details)					-	
10K PSI available in sma	llor chall sizes. Con	tact factory for dotail	c				

10K PSI available in smaller shell sizes. Contact factory for details.



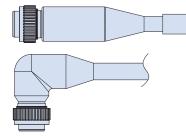
## SERIES 701 SeaKing<sup>™</sup> Junior

## High-density, dry-mate, harsh-environment connectors and cables for lighter-duty ROV applications such as lights and sensors

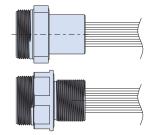
igh-density Series 701 SeaKing Junior connectors are the perfect choice for harshenvironment oil & gas industry equipment. All designs are equipped with single piston seal nitrile O-rings to withstand exposure to corrosive chemicals and high-pressure environments. These 5000 PSI pressure rated (mated condition, shell size dependent) connectors feature high-density crimp-contact or solder cup inserts, and are significantly smaller than our larger form-factor heavy-duty series 700 SeaKing interconnects. Goldplated crimp contacts accept #12–30 gage wire. SeaKing Junior connectors are backfilled with epoxy potting compound, ready for easy incorporation into overmolded cables. Crimp-contact versions for field installation and repair are also available. SeaKing Junior is specifically designed for high-pressure, mated condition applications that do not require the extra fail-safe features and cost of an open-face rated solution.

- 5000 PSI (mated condition) pressure rated connector for overmolded (non-PBOF) applications
- High density, small formfactor solution—up to 50% reduction in size and weight compared to industry standard solutions
- Ultraminiature high-density pin configurations: #22D, #20, #20HD, #16, #12, #8 signal, power, fiber optic and high-speed datalink shielded contacts

### SEAKING<sup>™</sup> JUNIOR OVERMOLDED CABLES AND PIGTAIL ASSEMBLIES



Harsh-environment polyurethane overmolded point-to-point cables with straight or rightangle ends, one-to-one wiring



Pigtail receptacle assemblies, variable cable length, single-conductor M22759/11 wire, environmental back-end potting



All featured insert arrangements tooled and available now including high-density and combo layouts for Coax, Twinax, and El Ochito<sup>®</sup> octaxial contacts

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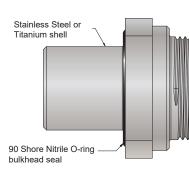


## SERIES 701 SeaKing<sup>™</sup> Junior High-Density Dry-Mate Connectors



5000 PSI piston-sealed connectors and cables

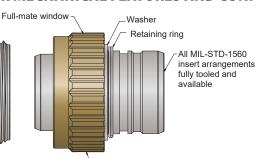
#### SERIES 701 SEAKING" JUNIOR MECHANICAL FEATURES AND CONFIGURATIONS



Flange Connector Receptacle



Series 701-011 Cable Connector Plug (CCP) supplied as overmolded cables only



└─Stainless steel or Titanium shell, Marine Bronze coupling nut on CCP

**Cable Connector Plug** 



Series 701-016 Flange Connector Receptacle (FCR) supplied as discrete connectors or in pigtail assemblies

#### Stainless Steel or Titanium shells, Marine Bronze coupling nuts

Available in nine sizes from 2 to 128 contacts, Series 701 connectors feature stainless steel or marine bronze shells. Nitrile O-rings resist high temperature and corrosive chemicals.

#### 5,000 PSI

These connectors withstand up to 5,000 PSI hydrostatic pressure in a mated condition.



Series 701-017 Bulkhead Connector Receptacle (BCR) supplied as discrete connectors or in pigtail assemblies

### SEAKING<sup>™</sup> JUNIOR CONTACT SPECIFICATIONS, MATERIALS AND FINISHES, AND CRIMP TOOLS

Service Ratings						
Service	Sea Level DWV	Operational				
Rating	(VAC)	VAC	VDC			
М	1300	433.3	612.8			
N	1000	333.3	471.4			
I	1800	600.0	484.5			
II	2300	766.7	1084.2			

**Contact Crimp Tools** 

**Crimp Tool** 

809-136

809-136

809-136

809-015

**Contact Size** 

#12 #16

#20

#22D

Current Rating						
Contact Size	Amps	Wire Size				
#8	46.0	8 AWG				
#10	33.0	10 AWG				
#12	23.0	12-14 AWG				
#16	13.0	16-20 AWG				
#20	7.5	20-24 AWG				
#22D	5.0	22-28 AWG				

Performance Specifications					
Insulation Resistance	5000 megohms at 500 VDC				
Operating Temperature	-65° C to +175° C				
Hydrostatic Pressure	5,000 PSI mated condition, tested per ISO 13628-6				
Durability	300 mating cycles				

Series 701 Polarization												
Plug	Receptacle	Kau		ey ation								
MASTER KEY INSULATOR		Key Position	A°	B°								
		Normal (N)	150°	210°								
		А	75°	210°								
		В	95°	230°								
		С	140°	275°								

Positioner

809-137

809-137

809-137

K42 Pin

K40 Skt

Material a	nd Finish
Shells, Jam Nuts	Stainless steel or Titanium
CCP Coupling Nuts	Marine bronze, unplated
Contacts	Copper alloy, gold plated.
Insulators	Composite thermoplastic
Retaining ring and hardware	Stainless steel
Interfacial Seal (pin inserts only) and Grommet	Fluorosilicone
O-rings and Seals	Nitrile, 90 shore Viton <sup>®</sup> , 90 shore Viton <sup>®</sup> O-rings offer wider temperature range

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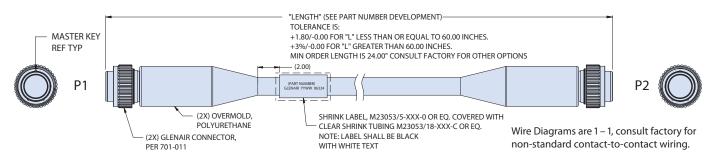
## SERIES 701 SeaKing<sup>™</sup> Junior High-Density Dry-Mate Connectors



**Overmolded cables and pigtail assemblies** 

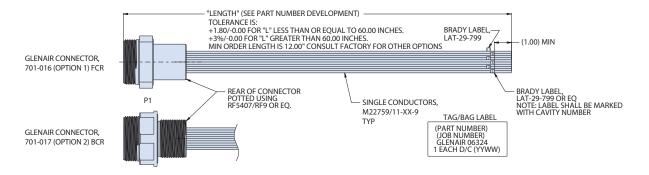
### SEAKING<sup>™</sup> JUNIOR POINT-TO-POINT PLUG-TO-PLUG OVERMOLDED CABLE

SeaKing Junior - How To Order CCP Cable Assemblies											
Sample Part Number		7071-0067	9-35	Z1	S	Ν	36				
Series	7071-0067 = SeaKing Junior Cable Assembly										
Insert Arrangement	See insert arrangement tables pages 23–28										
Material/Finish											
Contact Style	S = Socket				_						
Polarization	N = Normal, A, B, C (see Polarization Table, page 22)					_					
Cable Length	<b>Length</b> = in inches; ie 36 = 36 inches						-				



### SEAKING<sup>™</sup> JUNIOR SINGLE-ENDED RECEPTACLE ASSEMBLY

SeaKing Junior - How To Order FCR and BCR Receptacle Assemblies												
Sample Part Number		7071-0068	1	9-35	<b>Z</b> 1	Ρ	Ν	36				
Series	7071-0068 = SeaKing Junior Cable Assembly	7071-0068 = SeaKing Junior Cable Assembly										
Receptacle Style	1 = Flange Connector Receptacle (701-016) 2 = Bulkhead Connector Receptacle (701-017)											
Insert Arrangement	See insert arrangement tables pages 23–28											
Material / Finish	Z1 = Stainless Steel Body and Marine Bronze Coupling Nut TC = Titanium											
Contact Style	<b>P</b> = Pin											
Polarization	N = Normal, A, B, C (see Polarization Table, page 22)											
Cable Length	<b>Length</b> = in inches; ie 36 = 36 inches											





## SERIES 701 SeaKing™ Junior **Dry-Mate Subsea Connectors**



701-011 Plug, High Density with crimp removable contacts



HOW TO ORDER										
Sample Part Number	701-011	-13-08	-Z1	S	Ν					
Product Series										
Shell Size-Contact Arrangement										
Barrel Material     Z1 = 316 Stainless Steel* (Marine Bronze Coupling Nut)       TC = Titanium     XO = PEEK**										
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket									
Key Position	A, B, C, D, E (See table)									

\* 316 Stainless steel for sizes 09 through 19 2507 Super duplex for sizes 21 through 25 \*\* Consult factory for pressure rating

#### NOTES

Pressure rating: Mated condition - 5,000 PSI

Materials tested to:

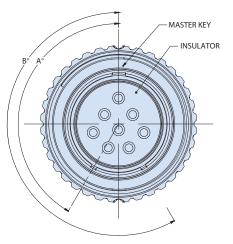
- Salt spray, per MIL-STD-202 method 101
- Humidity, per MIL-STD-202 method 101
- Thermal cycle, per EIA-455-71 Single O-ring sealing.

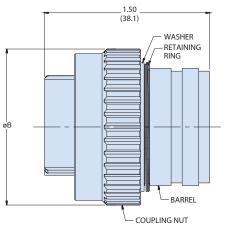
#### **MATERIAL/FINISH**

Plug barrel: See part number development

Coupling nut: Marine bronze for Z1 connectors

Titanium for TC connectors Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Retaining ring: 316 stainless steel Interfacial seal (pin inserts only): Fluorosilicone





	DIMENSIONS		
Shell	Thread A	Ø B	Max
Size	Thread A	In.	mm
09	0.7500-20 UNEF-2B	0.935	23.7
11	0.8750-20 UNEF-2B	1.060	26.9
13	1.0000-20 UNEF-2B	1.185	30.1
15	1.1250-20 UN-2B	1.310	33.3
17	1.2500-20 UN-2B	1.435	36.4
19	1.3750-20 UN-2B	1.560	39.6
21	1.5000-20 UN-2B	1.685	42.8
23	1.6250-20 UN-2B	1.810	46.0
25	1.7500-20 UN-2B	1.935	49.1

ALTERNA	TE KEY POS	
Position	A°	B°
N	150°	210°
А	75°	210°
В	95°	230°
С	140°	275°
D	75°	275°
E	95°	210°



## SERIES 701 SeaKing™ Junior **Dry-Mate Subsea Connectors**

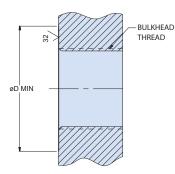


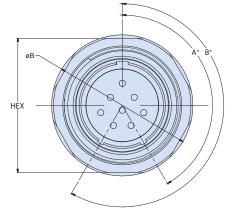
701-017 Bulkhead Connector Receptacle, high density with crimp removable contacts

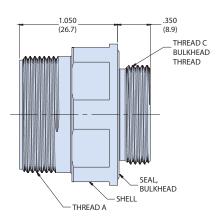


HOW TO ORDER									
Sample Part Number	701-017	-17-08	-Z1	Ρ	Ν				
Product Series	<b>701-017</b> = SeaKing								
Shell Size-Contact Arrangement	See Contact Arrangements table								
Barrel Material	Z1 = 316 Stainless Steel* TC = Titanium XO = PEEK**								
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket								
Key Position	A, B, C, D, E (See tab	le)							

\* 316 Stainless steel for sizes 09 through 15 2507 Super duplex for sizes 11 through 25 \*\* Consult factory for pressure rating







					DIMENS	SIONS				
Shell	Thread A	BN	IAX	He	ex	Thread C	DN	/lin	Bulkhead	Bore Seal
Size	Thiedu A	inch	mm	inch	mm	Thread C	inch	mm	Seal	DOIE Seal
09	0.7500-20 UNEF-2A	1.025	26.0	15/16	23.8	0.5625-20 UN-2A	1.030	26.2	2-018	2-014
11	0.8750-20 UNEF-2A	1.150	29.2	1 1/16	27.0	0.6875-20 UN-2A	1.160	29.5	2-020	2-016
13	1.0000-20 UNEF-2A	1.275	32.4	1 3/16	30.2	0.8125-20 UNEF-2A	1.310	33.3	2-022	2-018
15	1.1250-20 UN-2A	1.410	35.8	1 5/16	33.3	0.9375-20 UNEF-2A	1.430	36.3	2-024	2-020
17	1.2500-20 UN-2A	1.525	38.7	1 7/16	36.5	1.0625-20 UN-2A	1.560	39.6	2-026	2-022
19	1.3750-20 UN-2A	1.650	41.9	1 9/16	39.7	1.1875-20 UN-2A	1.680	42.7	2-028	2-024
21	1.5000-20 UN-2A	1.775	45.1	1 11/16	42.9	1.3125-20 UN-2A	1.810	46.0	2-029	2-026
23	1.6250-20 UN-2A	1.900	48.3	1 13/16	46.0	1.4375-20 UN-2A	1.950	49.5	2-030	2-028
25	1.7500-20 UN-2A	2.025	51.4	1 15/16	49.2	1.5625-20 UN-2A	2.070	52.6	2-031	2-029

#### NOTES

Pressure rating: Mated condition - 5,000 PSI Materials tested to:

- Salt spray, per MIL-STD-202 method 101
- Humidity, per MIL-STD-202 method 101

- Thermal cycle, per EIA-455-71

## Single O-ring sealing.

#### **MATERIAL/FINISH**

Receptacle shell: See part number development

Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Interfacial seal (pin inserts only) & grommet: Fluorosilicone Seals: Nitrile

ALTERNATE KEY POSITIONS											
Position	A°	B°									
Ν	150°	210°									
А	75°	210°									
В	95°	230°									
С	140°	275°									
D	75°	275°									
E	95°	210°									



## SERIES 701 SeaKing™ Junior **Dry-Mate Subsea Connectors**

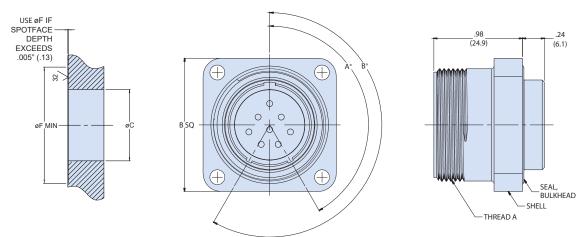


701-016 Flange Connector Receptacle, high density with crimp removable contacts



HOW TO ORDER									
Sample Part Number	701-016	-17-08	-Z1	Ρ	N				
Product Series	<b>701-016</b> = SeaKing								
Shell Size-Contact Arrangement	See Contact Arrangements table								
Barrel Material	Z1 = 316 Stainless Steel* TC = Titanium XO = PEEK**								
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket								
Key Position	A, B, C, D, E (See tab	le)				-			

\* 316 Stainless steel for sizes 09 2507 Super duplex for sizes 11 through 25 \*\* Consult factory for pressure rating



						DIME	NSION	S						
		BN	IAX	C	*	D	*	E* Flange	F Min	, .005	F' Min,	>.005		
Shell Size	Thread A	inch	mm	inch	mm	inch	mm	Screw Size	inch	mm	inch	mm	Bulkhead Seal	Bore Seal
09	0.7500-20 UNEF-2A	1.085	27.6	0.530	13.5	0.770	19.6	#4-40	0.885	22.5	1.460	37.1	2-017	2-014
11	0.8750-20 UNEF-2A	1.175	29.8	0.655	16.6	0.860	21.8	#4-40	1.015	25.8	1.600	40.6	2-019	2-016
13	1.0000-20 UNEF-2A	1.265	32.1	0.760	19.3	0.950	24.1	#4-40	1.120	28.4	1.690	42.9	2-021	2-018
15	1.1250-20 UN-2A	1.405	35.7	0.895	22.7	1.070	27.2	#6-32	1.250	31.8	1.955	49.7	2-023	2-020
17	1.2500-20 UN-2A	1.495	38.0	1.020	25.9	1.160	29.5	#6-32	1.375	34.9	2.065	52.5	2-025	2-022
19	1.3750-20 UN-2A	1.710	43.4	1.125	28.6	1.250	31.8	#8-32	1.480	37.6	2.320	58.9	2-026	2-024
21	1.5000-20 UN-2A	1.850	47.0	1.250	31.8	1.390	35.3	#8-32	1.610	40.9	2.485	63.1	2-028	2-026
23	1.6250-20 UN-2A	1.940	49.3	1.350	34.3	1.480	37.6	#8-32	1.705	43.3	2.520	64.0	2-029	2-028
25	1.7500-20 UN-2A	2.030	54.6	1.500	38.1	1.570	39.9	#8-32	1.855	47.1	2.745	69.7	2-030	2-029

\*For dimension see next page.

#### NOTES

Pressure rating: Mated condition - 5,000 PSI Materials tested to:

- Salt spray, per MIL-STD-202 method 101
- Humidity, per MIL-STD-202 method 101
- Thermal cycle, per EIA-455-71
- Single O-ring sealing.

#### MATERIAL/FINISH

Receptacle shell: See part number development Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Interfacial seal (pin inserts only) & grommet: Fluorosilicone Seals: Nitrile

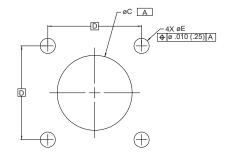


## SERIES 701 SeaKing™ Junior **Dry-Mate Subsea Connectors**



701-016 Flange Connector Receptacle, high density with crimp removable contacts

ALTERNATE KEY POSITIONS									
Position	A°	B°							
N	150°	210°							
Α	75°	210°							
В	95°	230°							
С	140°	275°							
D	75°	275°							
Е	95°	210°							





## SERIES 701 SeaKing™ Junior High-Density PEEK Subsea Connectors $G_{lenair}$



WASHER

RETAINING RING

BARREL

701-038 PEEK Cable Connector Plug with crimp-removable contacts

	HOW TO ORDER									
Sample Part Number		701-038	-17-08	-K	S	N				
Product Series	<b>701-038</b> = SeaKing J	701-038 = SeaKing Junior								
Shell Size-Contact Arrangement	See Contact Arrangements table									
Barrel Material	K = 30% Reinforced PEEK									
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket									
Key Position	A, B, C, D, E (See table	A, B, C, D, E (See table)								

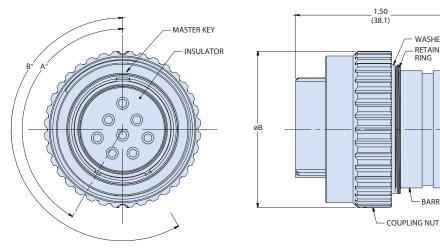
#### NOTES

Pressure rating: Mated condition -5,000 PSI, tested per ISO 13628-6. Materials tested to:

- Salt spray, per MIL-STD-202
- method 101
- Humidity, per MIL-STD-202 method 101
- Thermal cycle, per EIA-455-71 Single O-ring sealing.

#### MATERIAL/FINISH

Plug barrel: 30% reinforced PEEK Coupling nut: 30% reinforced PEEK Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Retaining ring: 316 stainless steel Interfacial seal (pin inserts only): Fluorosilicone



	DIMENSIONS				
Shell	Thread A	ØВ			
Size	Inread A	In.	mm		
09	0.7500-20 UNEF-2B	0.935	23.7		
11	0.8750-20 UNEF-2B	1.060	26.9		
13	1.0000-20 UNEF-2B	1.185	30.1		
15	1.1250-20 UN-2B	1.310	33.3		
17	1.2500-20 UN-2B	1.435	36.4		
19	1.3750-20 UN-2B	1.560	39.6		
21	1.5000-20 UN-2B	1.685	42.8		
23	1.6250-20 UN-2B	1.810	46.0		
25	1.7500-20 UN-2B	1.935	49.1		

ALTERNATE KEY POSITIONS											
Position	Position A° B°										
N	150°	210°									
А	75°	210°									
В	95°	230°									
С	140°	275°									
D	75°	275°									
E	95°	210°									

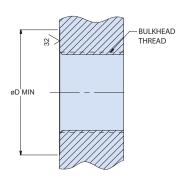


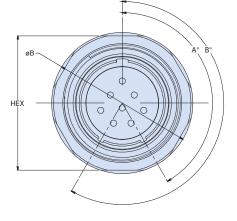
## SERIES 701 SeaKing™ Junior High-Density PEEK Subsea Connectors

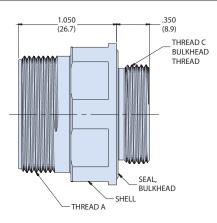


701-040 PEEK Bulkhead Connector Receptacle with crimp removable contacts

	SeaKing Plug - How To Order								
Sample Part Number		701-040	-17-08	К	Р	1	N		
Product Series	<b>701-040</b> = SeaKing	Junior							
Shell Size-Contact Arrangement	rangement See Contact Arrangements table								
Barrel Material	K = 30% Reinforced PEEK								
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket								
O-Ring Material	1 = 90 Shore Nitrile 2 = 90 Shore Vitron								
Key Position	<b>A</b> , <b>B</b> , <b>C</b> , <b>D</b> , <b>E</b> (See tab	le)							







					DIMENS	SIONS				
Shell	Thread A	BN	IAX	He	≥x	Thread C	DN	/lin	Bulkhead	Bore Seal
Size	Thread A	inch	mm	inch	mm	mread C	inch	mm	Seal	Dore Sear
09	0.7500-20 UNEF-2A	1.025	26.0	15/16	23.8	0.5625-20 UN-2A	1.030	26.2	2-018	2-014
11	0.8750-20 UNEF-2A	1.150	29.2	1 1/16	27.0	0.6875-20 UN-2A	1.160	29.5	2-020	2-016
13	1.0000-20 UNEF-2A	1.275	32.4	1 3/16	30.2	0.8125-20 UNEF-2A	1.310	33.3	2-022	2-018
15	1.1250-20 UN-2A	1.410	35.8	1 5/16	33.3	0.9375-20 UNEF-2A	1.430	36.3	2-024	2-020
17	1.2500-20 UN-2A	1.525	38.7	1 7/16	36.5	1.0625-20 UN-2A	1.560	39.6	2-026	2-022
19	1.3750-20 UN-2A	1.650	41.9	1 9/16	39.7	1.1875-20 UN-2A	1.680	42.7	2-028	2-024
21	1.5000-20 UN-2A	1.775	45.1	1 11/16	42.9	1.3125-20 UN-2A	1.810	46.0	2-029	2-026
23	1.6250-20 UN-2A	1.900	48.3	1 13/16	46.0	1.4375-20 UN-2A	1.950	49.5	2-030	2-028
25	1.7500-20 UN-2A	2.025	51.4	1 15/16	49.2	1.5625-20 UN-2A	2.070	52.6	2-031	2-029

#### NOTES

Pressure rating: mated condition - 5,000 PSI, tested per ISO 13628-6.

- Materials tested to:
- Salt spray, per MIL-STD-202 method 101
- Humidity, per MIL-STD-202 method 101
- Thermal cycle, per EIA-455-71

Single O-ring sealing.

#### MATERIAL/FINISH

Receptacle shell: 30% reinforced PEEK Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Interfacial seal (pin inserts only) & grommet: Fluorosilicone

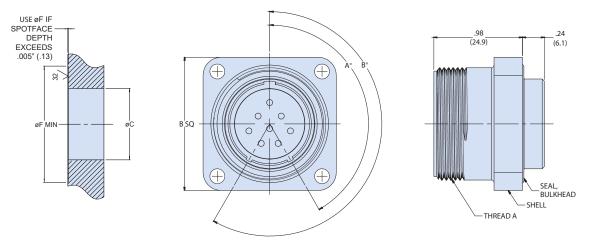
ALTERNATE KEY POSITIONS									
Position	A°	B°							
Ν	150°	210°							
А	75°	210°							
В	95°	230°							
С	140°	275°							
D	75°	275°							
E	95°	210°							



## SERIES 701 SeaKing™ Junior High-Density PEEK Subsea Connectors Glenair.

701-039 PEEK Flange Connector Receptacle with crimp removable contacts

HOW TO ORDER									
Sample Part Number		701-039	-17-08	-K	Ρ	1	N		
Product Series	<b>701-039</b> = SeaKing	Junior							
Shell Size-Contact Arrangement See Contact Arrangements table									
Barrel Material K = 30% Reinforced PEEK									
Contact Style	A = Pin Insert (No Contacts Included) B = Socket Insert (No Contacts Included) P = Pin S = Socket								
O-Ring Material	1 = 90 Shore Nitrile 2 = 90 Shore Vitron								
Key Position	A, B, C, D, E (See tab	le)							



						DIM	NSION	S								
		BN	IAX	C	*	D	*	E* Flange	F Min, .005		F Min, .005		F Min, >.005			
Shell Size	Thread A	inch	mm	inch	mm	inch	mm	Screw Size	inch	mm	inch	mm	Bulkhead Seal	Bore Seal		
09	0.7500-20 UNEF-2A	1.085	27.6	0.530	13.5	0.770	19.6	#4-40	0.885	22.5	1.460	37.1	2-017	2-014		
11	0.8750-20 UNEF-2A	1.175	29.8	0.655	16.6	0.860	21.8	#4-40	1.015	25.8	1.600	40.6	2-019	2-016		
13	1.0000-20 UNEF-2A	1.265	32.1	0.760	19.3	0.950	24.1	#4-40	1.120	28.4	1.690	42.9	2-021	2-018		
15	1.1250-20 UN-2A	1.405	35.7	0.895	22.7	1.070	27.2	#6-32	1.250	31.8	1.955	49.7	2-023	2-020		
17	1.2500-20 UN-2A	1.495	38.0	1.020	25.9	1.160	29.5	#6-32	1.375	34.9	2.065	52.5	2-025	2-022		
19	1.3750-20 UN-2A	1.710	43.4	1.125	28.6	1.250	31.8	#8-32	1.480	37.6	2.320	58.9	2-026	2-024		
21	1.5000-20 UN-2A	1.850	47.0	1.250	31.8	1.390	35.3	#8-32	1.610	40.9	2.485	63.1	2-028	2-026		
23	1.6250-20 UN-2A	1.940	49.3	1.350	34.3	1.480	37.6	#8-32	1.705	43.3	2.520	64.0	2-029	2-028		
25	1.7500-20 UN-2A	2.030	54.6	1.500	38.1	1.570	39.9	#8-32	1.855	47.1	2.745	69.7	2-030	2-029		

\*For dimension see next page.

#### NOTES

Pressure rating: Mated condition - 5,000 PSI, tested per ISO 13628-6.

Materials tested to:

- Salt spray, per MIL-STD-202 method 101
- Humidity, per MIL-STD-202 method 101
- Thermal cycle, per EIA-455-71
- Single O-ring sealing.

#### MATERIAL/FINISH

Receptacle shell: 30% reinforced PEEK Contacts: Copper alloy, gold plated Insulator: High grade rigid dielectric Interfacial seal (pin inserts only) & grommet: Fluorosilicone

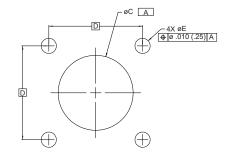
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## SERIES 701 SeaKing™ Junior High-Density PEEK Subsea Connectors Glenair.

701-039 PEEK Flange Connector Receptacle with crimp removable contacts

ALTERI	ALTERNATE KEY POSITIONS									
Position	A°	B°								
N	150°	210°								
А	75°	210°								
В	95°	230°								
С	140°	275°								
D	75°	275°								
E	95°	210°								





## SeaKing™ Junior **Dry-Mate Subsea Connectors**



## 707-0498-1 Cable Connector Plug (CCP)



HOW TO ORDER										
Sample Part Number		707-0498	-1	-52	-36	<b>B8</b>	G	-Z1	S	N
Product Series		<b>1498</b> = Cable ector Plug								
Connector Type		$\begin{array}{ll} CP & 5 = CCR \\ CR & 7 = BCR \end{array}$								
Shell Size	See D	imensions tab	e							
Insulator Size	See D	imensions tabl	e							
Arrangement						_				
Grommet Designator	G = Grommet Seal Included Leave Blank for No Grommet Seal									
Shell Material	<b>TA</b> = 1	Z1 = Stainless Steel, Passivated TA = Titanium with Anodic Coating See Component Materials table								
Insert/Contact Designator       P = Pin Insulator with Pin Contacts Included         S = Socket Insulator with Socket Contacts Included         A = Pin Insulator Less Pin Contacts         B = Socket Insulator Less Socket Contacts										
Polarization	See P	olarization tabl	e							

### NOTES

Electrical rating:

- Voltage: 600 vdc / 425 vac
- Current: see Current Rating table
- Pressure rating
- Mated condition: 1,450 psi (1,000 meters depth)

- Open face: not rated

Contact installation: "crimp and poke" contacts are installed at the cable assembly level. Contacts are provided loose at this level.

Assembly is identified here with "06324 Glenair", part number and date code.

Packaging: product is fitted with dust caps and packaged with packing foam within a cardboard box.

#### **MATERIAL COMPOSITION**

Insulators: glass-reinforced P.E.E.K. O-ring: nitrile.

Grommet seal: fluorosilicone.

See Component Materials table for remaining components.

	COMPONENT MATERIALS											
Shell Material Code	Plug Shell	Coupling Nut	Retaining Ring	Coupling Washer	Set Screws							
Z1	Stainless Steel	Marine Bronze	Stainless Steel	Marine Bronze	Stainless Steel							
TA	Titanium	Titanium	Titanium	Titanium	Titanium							

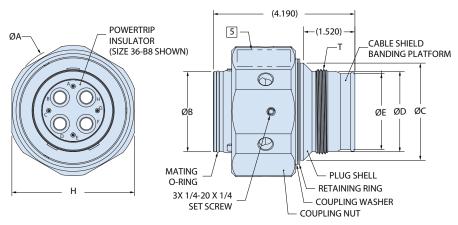
					INSE	RT AR
Insert	0	Contac	t Size	and Q	uanti	ty
Arr.	#16	#12	#8	#4	#1/0	#2/0
<b>18-2</b>			2			
18-4		2	2			
20-3			3			
20-4			4			
20-5		2	3			
20-7	4		3			
24-1					1	
24-2				2		
24-3				3		
24-5			5			
24-6		4		2		
24-A1						1
24-A6		3		3		
28-12	6		6			
28-15	15					
28-4				4		
28-8		1	7			
28-9	5			4		

RAI	NGEMENT	rs 🛛					
	Insert	C	ontac	t Size	and Q	uanti	ty
	Arr.	#16	#12	#8	#4	#1/0	#2/0
	32-12	2		10			
	32-2					2	
	32-20	1	19				
	32-3					3	
	32-4				2	2	
	32-5				5		
	32-6		3			3	
	32-7				7		
	32-A22		22				
	36-16	3		13			
	36-2						2
	36-4					4	
	36-9	14	14	2	1		
	36-A8				8		
	36-B8	4				4	
	40-10	16		9	4		
	40-21			21			
	40-5					5	

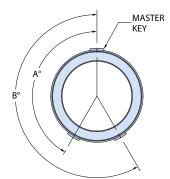
## Seaking Junior

## SeaKing<sup>™</sup> Junior **Dry-Mate Subsea Connectors**

## 707-0498-1 Cable Connector Plug (CCP)



	DIMENSIONS															
				Ø	В			Ø	D							
Shell	Insulation	Ø	A	+.002	002	Ø	C	+.002	002	Ø	E	Н		T UN-2A	Mating	Retain.
Size	Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	Threads	O-Ring Size	<b>Ring Size</b>
44	28	3.355	85.22	1.873	47.57	2.375	60.33	1.875	47.63	1.750	44.45	3.125	79.38	2.000-12	2-031	WS-237
48	32	3.605	91.57	2.123	53.92	2.625	66.68	2.125	53.97	2.000	50.80	3.375	85.73	2.250-12	2-033	WS-262
52	36	3.855	97.92	2.373	60.27	2.875	73.02	2.375	60.33	2.250	57.15	3.625	92.07	2.500-12	2-035	WS-287
56	40	4.105	104.27	2.623	66.62	3.125	79.38	2.625	66.68	2.500	63.50	3.875	98.43	2.750-12	2-037	WS-312



ALTERN	NATE KEY POS	ITIONS
Position	A°	B°
N	150°	210°
А	75°	210°
В	95°	230°
С	140°	275°

CURRENT R	ATINGS
Contact Size	AMPS
16	13
12	23
8	60
4	100
1/0	175



## SeaKing™ Junior **Dry-Mate Subsea Connectors**



## 707-0498-5 Cable Connector Receptacle (CCR)



### NOTES

Electrical rating:

- Voltage: 600 vdc / 425 vac

- Current: see Current Ratings table Pressure rating

- Mated condition: 1,450 psi (1,000 meters depth)

- Open face: not rated

Contact installation: "crimp and poke" contacts are installed at the cable assembly level. Contacts are provided loose at this level.

Assembly is identified here with "06324 Glenair", part number and date code.

Packaging: product is fitted with dust caps and packaged with packing foam within a cardboard box.

#### **MATERIAL COMPOSITION**

Shell: see part number development Insulators: glass-reinforced P.E.E.K.

O-ring: nitrile

Interfacial seal and grommet seal: fluorosilicone

		HOW TO OR	DER								
Sample Part Number		707-0498	-5	-52	-36	<b>B8</b>	G	-Z1	Ρ	N	
Product Series	<b>707-0</b> Cable Recep	Connector									
Connector Type		CP         5 = CCR           CR         7 = BCR	-								
Shell Size	See D	ee Dimensions table									
Insulator Size	See D	See Dimensions table									
Arrangement						-					
Grommet Designator		G = Grommet Seal Included Leave Blank for No Grommet Seal									
Shell Material	<b>TA</b> = 1	<b>Z1</b> = Stainless Steel, Passivated <b>TA</b> = Titanium with Anodic Coating See Component Materials table									
Insert/Contact Designator	S = So A = Pi	<ul> <li>P = Pin Insulator with Pin Contacts Included</li> <li>S = Socket Insulator with Socket Contacts Included</li> <li>A = Pin Insulator Less Pin Contacts</li> <li>B = Socket Insulator Less Socket Contacts</li> </ul>							-		
Polarization	See Po	olarization tabl	e								

					INSE	RT AR
Insert	0	ontac	t Size	and Q	uanti	ty
Arr.	#16	#12	#8	#4	#1/0	#2/0
18-2			2			
18-4		2	2			
20-3			3			
20-4			4			
20-5		2	3			
20-7	4		3			
24-1					1	
24-2				2		
24-3				3		
24-5			5			
24-6		4		2		
24-A1						1
24-A6		3		3		
28-12	6		6			
28-15	15					
28-4				4		
28-8		1	7			
28-9	5			4		

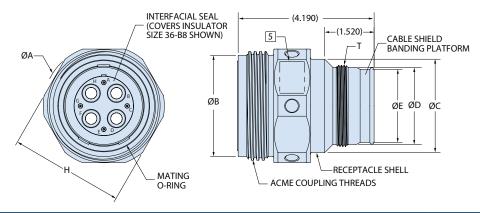
#### ANGEMENTS **Contact Size and Quantity** Insert Arr. #16 #12 #8 #4 #1/0 #2/0 32-12 2 10 32-2 2 32-20 1 19 32-3 3 32-4 2 2 5 32-5 32-6 3 3 7 32-7 22 32-A22 36-16 3 13 36-2 2 36-4 4 14 14 2 1 36-9 8 36-A8 36-B8 4 4 40-10 16 4 9 21 40-21 5 40-5

CURRENT	CURRENT RATINGS									
Contact Size	AMPS									
16	13									
12	23									
8	60									
4	100									
1/0	175									

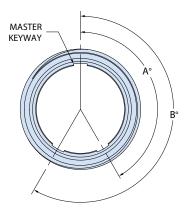
## SeaKing Junior

## SeaKing<sup>™</sup> Junior **Dry-Mate Subsea Connectors**

707-0498-5 Cable Connector Receptacle (CCR)



	DIMENSIONS														
Shell	Insulation	on ØA ØB		sulation ØA ØB ØC +.002002		ØE		н		T UN-2A	Mating O-Ring				
Size	Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	Threads	Size
44	28	3.230	82.04	1.620	41.15	2.375	60.33)	1.875	47.63	1.750	44.45	3.000	76.20	2.000-12	2-034
48	32	3.480	88.39	2.870	72.90	2.625	66.68)	2.125	53.97	2.000	50.80	3.250	82.55	2.250-12	2-036
52	36	3.730	94.74	3.120	79.25	2.875	73.02)	2.375	60.33	2.250	57.15	3.500	88.90	2.500-12	2-038
56	40	3.980	101.09	3.370	85.60	3.125	79.38)	2.625	66.68	2.500	63.50	3.750	95.25)	2.750-12	2-040



ALTERN	NATE KEY POS	ITIONS
Position	A°	B°
N	150°	210°
А	75°	210°
В	95°	230°
С	140°	275°



## SeaKing™ Junior **Dry-Mate Subsea Connectors**



## 707-0498-6 Flange Connector Receptacle (FCR)



#### NOTES

Electrical rating:

- Voltage: 600 vdc / 425 vac

- Current: see Current Ratings table Pressure rating

- Mated condition: 1,450 psi (1,000 meters depth)
- Open face: not rated

Contact installation: "crimp and poke" contacts are installed at the cable assembly level. Contacts are provided loose at this level.

Assembly is identified here with "06324 Glenair", part number and date code.

Packaging: product is fitted with dust caps and packaged with packing foam within a cardboard box.

#### MATERIAL COMPOSITION

Shell and flange: see part number development

Insulators: glass-reinforced P.E.E.K.

O-ring: nitrile

Interfacial seal and grommet seal: fluorosilicone

		HOW TO ORI	DER										
Sample Part Number		707-0498	-6	-52	-36	<b>B8</b>	G	-Z1	Ρ	N			
Product Series		<b>498</b> = Flange ctor Receptacle											
Connector Type	1 = C0 6 = F0												
Shell Size	See D	imensions tab	e										
Insulator Size	See D	imensions tab	e										
Arrangement													
Grommet Designator	G = Grommet Seal Included Leave Blank for No Grommet Seal												
Shell and Flange Material	<b>TA</b> = 1	Z1 = Stainless Steel, Passivated TA = Titanium with Anodic Coating See Component Materials table											
Insert/Contact Designator	<ul> <li>P = Pin Insulator with Pin Contacts Included</li> <li>S = Socket Insulator with Socket Contacts Included</li> <li>A = Pin Insulator Less Pin Contacts</li> <li>B = Socket Insulator Less Socket Contacts</li> </ul>							-					
Polarization	See P	olarization tab	e										

					INSE	RT AR
Insert	0	ontac	t Size	and C	uanti	
Arr.	#16	#12	#8	#4	#1/0	#2/0
18-2			2			
18-4		2	2			
20-3			3			
20-4			4			
20-5		2	3			
20-7	4		3			
24-1					1	
24-2				2		
24-3				3		
24-5			5			
24-6		4		2		
24-A1						1
24-A6		3		3		
28-12	6		6			
28-15	15					
28-4				4		
28-8		1	7			
28-9	5			4		

Insert	Contact Size and Quantity					
Arr.	#16	#12	#8	#4	#1/0	#2/0
32-12	2		10			
32-2					2	
32-20	1	19				
32-3					3	
32-4				2	2	
32-5				5		
32-6		3			3	
32-7				7		
32-A22		22				
36-16	3		13			
36-2						2
36-4					4	
36-9	14	14	2	1		
36-A8				8		
36-B8	4				4	
40-10	16		9	4		
40-21			21			
40-5					5	

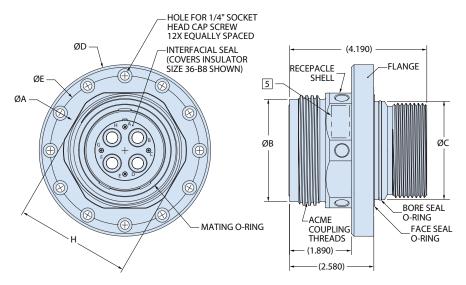
CURRENT RATINGS						
Contact Size	AMPS					
16	13					
12	23					
8	60					
4	100					
1/0	175					

### INSERT ARRANGEMENTS

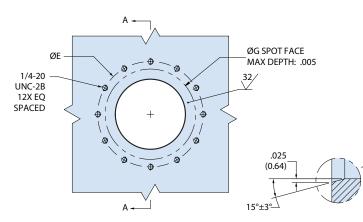


# SeaKing™ Junior **Dry-Mate Subsea Connectors**

707-0498-6 Flange Connector Receptacle (FCR)



	DIMENSIONS															
Shell	Insulation	Ø	A	Ø	В	Ø +.002	C 002	ø	D	Ø	Έ	н		Mating O-Ring	Bore Seal O-Ring	Face Seal O-Ring
Size	Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	Size	Size	Size
44	28	3.230	82.04	1.620	41.15	2.498	63.45	4.730	120.14	4.050	102.87	3.000	76.20	2-034	2-036	2-038
48	32	3.480	88.39	2.870	72.90	2.748	69.80	4.980	126.49	4.300	109.22	3.250	82.55	2-036	2-038	2-040
52	36	3.730	94.74	3.120	79.25	2.998	76.15	5.230	132.84	4.550	115.57	3.500	88.90	2-038	2-040	2-042
56	40	3.980	101.09	3.370	85.60	3.248	82.50	5.480	139.19	4.800	121.92	3.750	95.25	2-040	2-042	2-044



ØF

.375 (9.53)

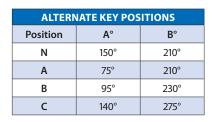
MIN

32/

SECTION A-A

BULKHEAD

BULKHEAD DIMENSIONS											
Shell	Ø	E	Ø +.002	F 002	ØG Minimum						
Size	inch	mm	inch	mm	inch	mm					
44	4.050	102.87	2.500	63.50	3.400	86.36)					
48	4.300	109.22	2.750	69.85	3.650	92.71)					
52	4.550	115.57	3.000	76.20	3.900	99.06)					
56	4.800	121.92	3.250	82.55	4.150	105.41)					



B٩

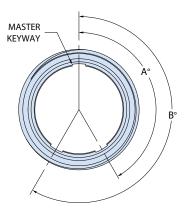


# SeaKing™ Junior **Dry-Mate Subsea Connectors**



707-0498-7 Bulkhead Connector Receptacle (BCR)





ALTERNATE KEY POSITIONS									
Position	Position A° B°								
N	150°	210°							
А	75°	210°							
В	95°	230°							
С	140°	275°							

CURRENT RATINGS								
Contact Size AMPS								
16	13							
12	23							
8	60							
4	100							
1/0	175							

HOW TO ORDER											
Sample Part Number	707-0498	-7	-52	-36	<b>B8</b>	G	-Z1	Р	N		
Product Series	<b>707-0498</b> = Bulkhead Connector Receptacle										
Connector Type	<b>1</b> = CCP <b>5</b> = CCR <b>6</b> = FCR <b>7</b> = BCR	-									
Shell Size	See Dimensions tab	le									
Insulator Size	See Dimensions table										
Arrangement	See Insert Arrangements table										
Grommet Designator	G = Grommet Seal Included Leave Blank for No Grommet Seal										
Shell, Nut and Washer Material	<b>Z1</b> = Stainless Steel, Passivated <b>TA</b> = Titanium with Anodic Coating See Component Materials table										
Insert/Contact Designator	P = Pin Insulator with S = Socket Insulator A = Pin Insulator Less B = Socket Insulator	vith S Pin C	ocket C ontacts	ontacts	s Inclu	ded		-			
Polarization	See Polarization tab	le							-		

					INCE		ДΛΙ	NGEMEN	ΓC
Incont	6	ontac	t Sizo	and (	)uanti		N/AI	Insert	
Insert Arr.	#16	#12	#8	#4	#1/0	#2/0		Arr.	#
18-2			2					32-12	
18-4		2	2					32-2	
20-3			3					32-20	
20-4			4					32-3	
20-5		2	3					32-4	
20-7	4		3					32-5	
24-1					1			32-6	
24-2				2				32-7	
24-3				3				32-A22	
24-5			5					36-16	
24-6		4		2				36-2	
24-A1						1		36-4	
24-A6		3		3				36-9	1
28-12	6		6					36-A8	
28-15	15							36-B8	4
28-4				4				40-10	1
28-8		1	7					40-21	
28-9	5			4				40-5	

Insert	C	ontac	t Size	and Q	uanti	ty
Arr.	#16	#12	#8	#4	#1/0	#2/0
32-12	2		10			
32-2					2	
32-20	1	19				
32-3					3	
32-4				2	2	
32-5				5		
32-6		3			3	
32-7				7		
32-A22		22				
36-16	3		13			
36-2						2
36-4					4	
36-9	14	14	2	1		
36-A8				8		
36-B8	4				4	
40-10	16		9	4		
40-21			21			
40-5					5	

#### NOTES

Electrical rating:

- Voltage: 600 vdc / 425 vac
- Current: see Current Ratings table

Pressure rating

- Mated condition: 1,450 psi (1,000 meters depth)
- Open face: not rated

Contact installation: "crimp and poke" contacts are installed at the cable assembly level. Contacts are provided loose at this level. Assembly is identified here with "06324 Glenair",

part number and date code. Packaging: product is fitted with dust caps

and packaged with packing foam within a cardboard box.

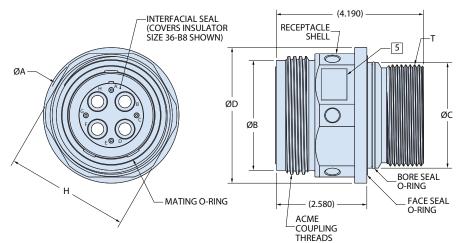
#### MATERIAL COMPOSITION

- Shell and flange: see part number development Insulators: glass-reinforced P.E.E.K.
- O-ring: nitrile
- Interfacial seal and grommet seal: fluorosilicone

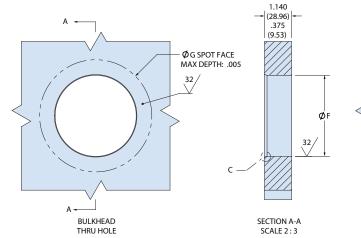
© 2018 Glenair, Inc • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • U.S. CAGE code 06324 • SeaKing<sup>™</sup> Junior Dimensions in Inches (millimeters) are subject to change without notice.

# SeaKing<sup>™</sup> Junior Dry-Mate Subsea Connectors

707-0498-7 Bulkhead Connector Receptacle (BCR)

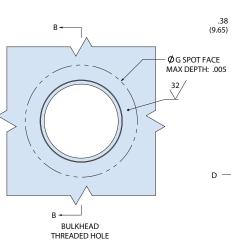


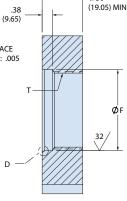
	DIMENSIONS													
Shell	Insulation	Ø	A	Ø	В	Ø +.002	C 002	Ø	D	н		Mating O-Ring	Bore Seal O-Ring	Face Seal O-Ring Size
Size	Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	Size	Size	
44	28	3.230	82.04	1.620	41.15	2.498	63.45	3.350	85.09	3.000	76.20	2-034	2-036	2-038
48	32	3.480	88.39	2.870	72.90	2.748	69.80	3.600	91.44	3.250	82.55	2-036	2-038	2-040
52	36	3.730	94.74	3.120	79.25	2.998	76.15	3.850	97.79	3.500	88.90	2-038	2-040	2-042
56	40	3.980	101.09	3.370	85.60	3.248	82.50	4.100	104.14	3.750	95.25	2-040	2-042	2-044



SeaKing

A

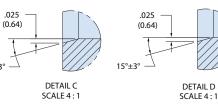




.750

SECTION B-B SCALE 2 : 3

BULKHEAD DIMENSIONS										
Shell Size	Ø +.002	F 002	ØG Mir	T UN-2B						
	inch	mm	inch	mm	Threads					
44	2.500	63.50	3.400	86.36)	2.375-8					
48	2.750	69.85	3.650	92.71)	2.625-8					
52	3.000	76.20	3.900	99.06)	2.875-8					
56	3.250	82.55	4.150	105.41)	3.125-8					

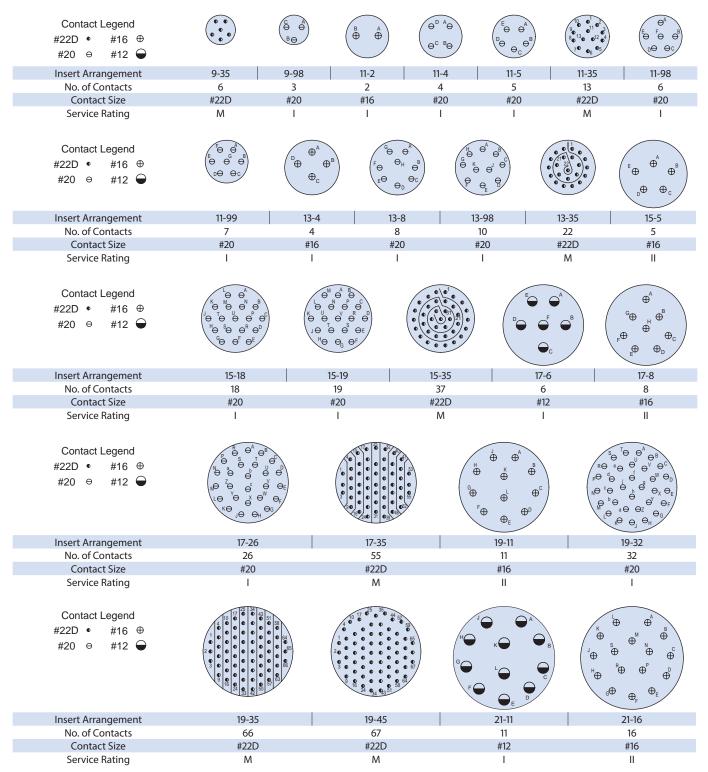






Insert arrangements

# SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (STANDARD LAYOUTS)







**Insert arrangements** 

### SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (STANDARD LAYOUTS)

Contact Legend #22D ● #16 ⊕ #20 ⊖ #12 €	$ \begin{array}{c} {}_{L}\Theta \\ {}_{R}\Theta \\ {}_{M}\Theta $	$\begin{array}{c} \begin{array}{c} & R \Theta & \Theta^A & \Theta_B \\ \\ \Theta & \chi \Theta & \Theta & \Theta^C \\ \Theta & \Theta & \Theta^T & \Theta^T \\ \Theta & \Theta & \Theta^T & \Theta^T \\ M & \Theta_b & \Theta_2 & E \\ L \Theta & V & \Theta^A & \Theta^U & F \\ \Theta^K & \Theta^J & H & \Theta^C \end{array}$	$\begin{array}{c} & & & \\ & & \\ & & \\ & & \\ & \\ & \\ & \\ $			
Insert Arrangement	21-24	21-25	21-27	21-35		
No. of Contacts	24	25	27	79		
Contact Size	#20	#20	#20	#22D		
Service Rating	I	I	1	Μ		
Contact Legend #22D • #16 $\oplus$ #20 $\ominus$ #12 $\bigcirc$ Insert Arrangement No. of Contacts Contact Size Service Rating Contact Legend #22D • #16 $\oplus$ #20 $\ominus$ #12 $\bigcirc$	21-41	$\begin{array}{c} & \overset{N}{\overset{M}{\oplus}} & \overset{N}{\overset{G}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\oplus}} & \overset{N}{\overset{N}{\to}} & \mathsf{N$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$			
	•         •         •         •         •         98           •         •         •         •         •         •         •         99           •	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	10 OF OH	0000		
Insert Arrangement No. of Contacts	23-35 100	23-36 36	23-53 53	23-55		
Contact Size	#22D	#20	#20	#20		
Service Rating	#22D	#20	#20	#20		
Contact Legend #22D ● #16 ⊕ #20 ⊖ #12 €	$ \begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $					
Insert Arrangement	23-97	23-	99	25-19		
No. of Contacts	16	1		19		
	Contact Size #16		6	#12		
Service Rating	I			1		
5						





Insert arrangements

#### SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (STANDARD LAYOUTS)

Contact Legend #22D ● #16 ⊕ #20 ⊖ #12 ●	$ \begin{array}{c} & \bigoplus^{R} & \bigoplus^{A} & \bigoplus^{B} & \bigoplus^{P} & \bigoplus^{B} & \bigoplus^{P} & \bigoplus^{P$		$ \begin{array}{c} \bigoplus_{a} \bigoplus_{b} \bigoplus_{c} \bigoplus_{c$
Insert Arrangement	25-29	25-35	25-37
No. of Contacts	29	128	37
Contact Size	#16	#22D	#16
Service Rating	I	М	II
Contact Legend #22D ● #16 ⊕ #20 ⊖ #12 ●	$\begin{array}{c} \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & $		
Insert Arrangement	25-61		
No. of Contacts	61		
Contact Size	#20		
Service Rating	1		

#### SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)

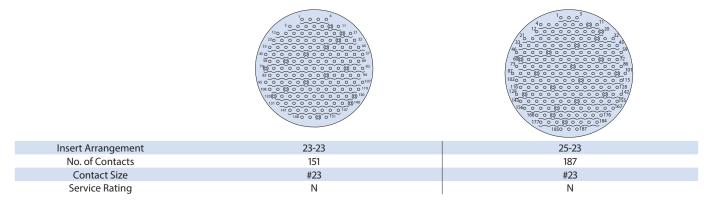
	$\begin{pmatrix} a_{0} & a^{0} & a^{2} \\ c_{0} & c_{0} & c_{0} \\ c^{0} & c_{0} & c_{0} \\ c^{0} & c_{0} & c_{0} \end{pmatrix}$	$\begin{array}{c} 12 & 01 & 07 \\ 01 & 0 & 04 \\ 010 & 0 & 00 \\ 10 & 0 & 00 \\ 10 & 0 & 00 \\ 010 & 0 & 00 \\ 0 & 0 & 00 \\ 0 & 0 & 0 \\ 0 & 0 &$		
Insert Arrangement	9-23	11-23	13-23	15-23
No. of Contacts	9	19	32	55
Contact Size	#23	#23	#23	#23
Service Rating	$N \\ \xrightarrow{(1,2)}{(2,2)} (2,2) (2$	N	N	N
Insert Arrangement	17-23	19-	-23	21-23
No. of Contacts	73	. 8	8	121
Contact Size	#23	#2	23	#23
Service Rating	Ν	1	N	Ν





**Insert arrangements** 

# SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)



# SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (COMBO LAYOUTS)

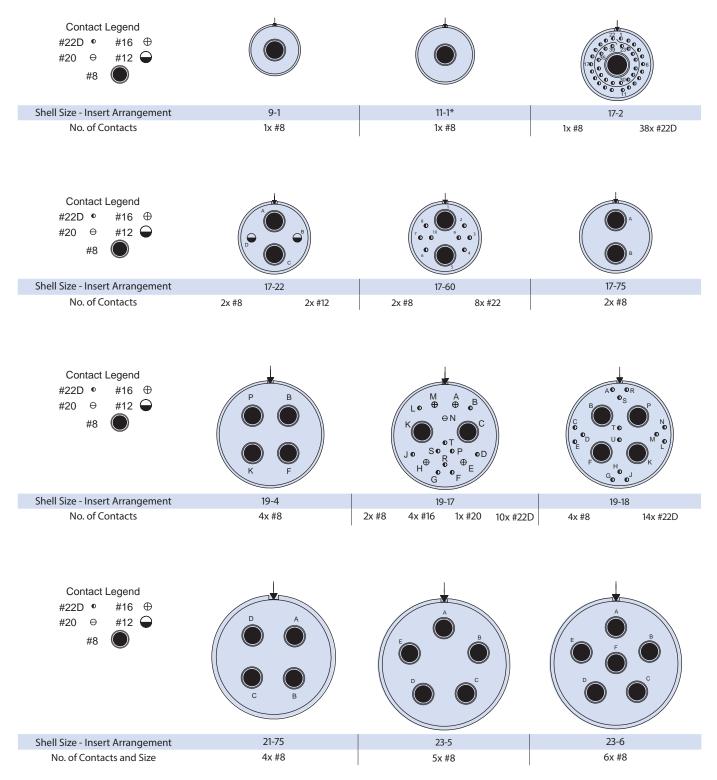
Contact Legend #22D ● #20 ⊖ #16 ⊕ #12	$ \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & $	$ \begin{array}{c} \overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{\overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{\overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{\overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{\overset{1}{_{\mathcal{D}}} \bigoplus \\ \overset{1}{\overset{1}{\overset{1}{_{\mathcal{D}}} \longrightarrow \\ \overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}$	$\begin{array}{c} \begin{array}{c} & & & \\ & & $	$ \begin{array}{c} & & & \\ & & & \\ $
Insert Arrangement	15-15	15-97	17-99	19-28
No. of Contacts and Size	1X #16 14X #20	4X #16 8X #20	2X #16 21X #2	
Service Rating				
Contact Legend #22D ● #20 ⊖ #16 ⊕ #12   #10   ●	$ \begin{array}{c} \begin{array}{c} & \Theta^{a} & \Theta^{b} & \Theta^{b} \\ & \Theta^{b} & \Theta^{b} & \Theta^{b} \\ & \Theta^{c} & \Theta^{c} & \Theta^{c} \\ \end{array} $	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	$ \begin{array}{c} \Theta^{A} \Theta^{B} \Theta^{C} \Theta^{C$	$\begin{array}{c} z \ominus & \Theta_{a}^{A} \ominus & B \ominus & \Box & \Theta_{a} \\ y \ominus & y \ominus & \Theta_{a}^{C} & \Theta_{b}^{A} \ominus & B \ominus & \Box & \Theta_{a} \\ y \ominus & y \ominus & \varphi & \Theta_{b}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & y \ominus & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & y \ominus & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \psi & \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C} & \Theta_{c}^{C} & \Theta_{c}^{C} \\ \varphi & \varphi & \Theta_{c}^{C}$
Insert Arrangement	19-30	21-	-39	25-4
No. of Contacts and Size	1X #16 29X	#20 2X #16	37X #20	8X #16 48X #20
Service Rating	I		I	I
Contact Legend #22D ● #20 ⊖ #16 ⊕ #12   #10   ●			$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{}\\ \end{array} \\ \end{array} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \end{array} \\ \end{array} \begin{array}{c} \end{array} \begin{array}{c} \end{array} \end{array} \begin{array}{c} \end{array} \begin{array}{c} \end{array} \end{array} \begin{array}{c} \end{array} \begin{array}{c} \end{array} \end{array} $	$\begin{array}{c} \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ $
Insert Arrangement	25-11	25-	-24	25-43
No. of Contacts and Size	9X #10 2x #	20 12X #12	12X #16	20X #16 23X #20
Service Rating	Ν		I	I





Insert arrangements

# SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)

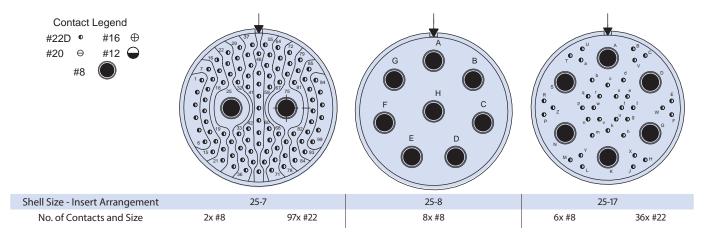


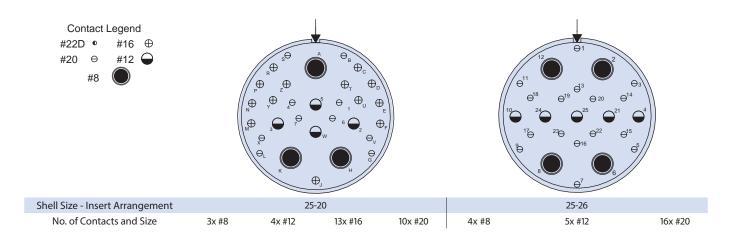


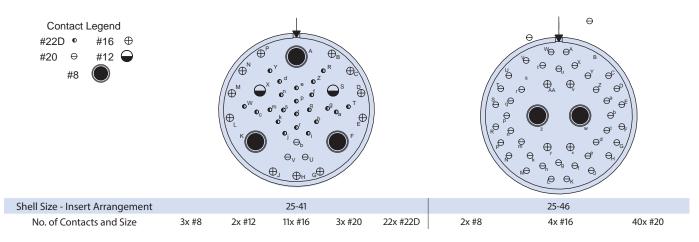


Insert arrangements

# SEAKING<sup>™</sup> JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)









# DEEP WATER

# SeaKing<sup>™</sup> Fiber Optic

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

Data-intensive applications such as towed array sonar systems, well logging and monitoring equipment, digital seismic streamers, as well as magnetic flux leakage



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

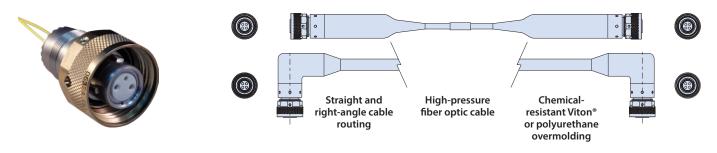


# DEEP WATER SeaKing<sup>™</sup> Fiber Optic

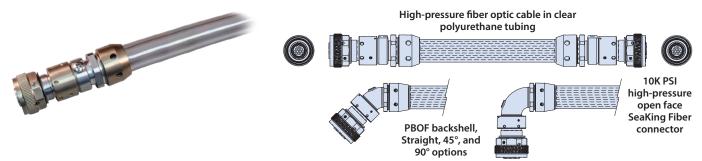


**10K PSI open-face pressure-rated fiber optic connectors and cables** 

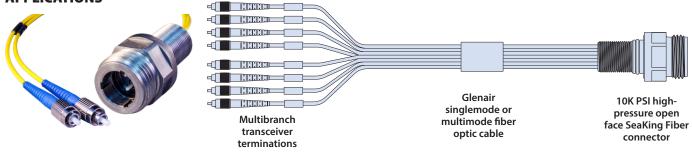
### **ENVIRONMENTAL OVERMOLDED FIBER OPTIC JUMPERS**



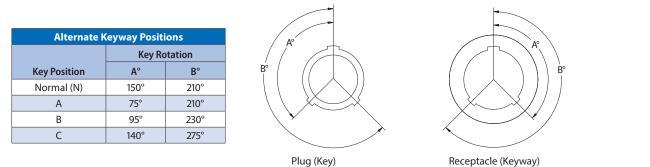
PRESSURE-BALANCED OIL-FILLED (PBOF) HIGH-PRESSURE FIBER OPTIC ASSEMBLIES



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



#### **KEY AND KEYWAY POSITONS**





No. of Copper Contacts

# DEEP WATER SeaKing<sup>™</sup> Fiber Optic

# Fiber optic insert arrangements



Fiber Only Shell Size Insert Arrangement No. of Contacts	(1) (2) K KF2 2F0		1) (2) L F3 F0	1 2 4 3 M MF4 4 FO
Fiber Only		3)	8 7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Shell Size	0			P
Insert Arrangement No. of Contacts	OF8 8 FO			PF12 12 FO
Copper/Fiber		1230 56 7890		$ \begin{array}{c}       2 \\       2 \\       3 \\       4 \\       1 \\       6 \\       5 \\       9 \\       10 \\       11 \\       9 \\       10 \\       11 \\       5 \\       9 \\       10 \\       11 \\       5 \\       9 \\       10 \\       11 \\       5 \\       9 \\       10 \\       11 \\       5 \\       9 \\       10 \\       11 \\       5 \\       9 \\       10 \\       11 \\       5 \\       1 \\       7 \\       8 \\       7 \\       8 \\       7 \\       8 \\       7 \\       10 \\       11 \\       7 \\       7 \\       7 \\       8 \\       7 \\   $
Shell Size	К	L	М	0
Insert Arrangement	KH12	LH28	MH24	OH56
No. of Fiber Contacts	1 FO	2 FO	2 FO	5 FO
No. of Copper Contacts	2 #16	8 #22	4 #16	6 #16
<b>Copper/Fiber</b> Shell Size	$ \begin{array}{c}             10 \\             9 \\             11 \\           $	(1) (2) (4) (5) (6) (8) (9) (10) (13) (14) (15) (17) (18) (17) (18) (17) (18) (17) (18)	(11) (12)	Contact SpecificationsContact Size#22#16Amps310Wire Gage Accommodation2216All contact arrangements are rated for 600 volts.3
Insert Arrangement	QH106	QH316	5	Contact arrangements are shown
No. of Fiber Contacts	10 FO	3 FO		as face view of receptacle insert. Contact arrangements of plug
No. of Connex Contacts	6 #16	16 #16		inserts are reverse

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16 #16

6 #16

inserts are reverse.

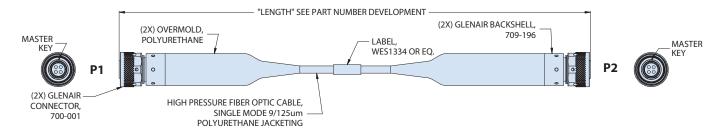


# DEEP WATER SeaKing™ Fiber Optic



Overmolded assemblies with SeaKing<sup>™</sup> connectors or SeaKing<sup>™</sup> to commercial fiber optic connectors

		SeaKing Fiber - How	To Ordei	r						
Sample Part Number		FA09648	-MF4	-Z1	-N	-N	-XXXX	С	-XXXX	-CFM
Basic Number	SeaKing Fiber Op plug jumper/brea									
Shell Size & Insert Arrangement	See Glenair draw	ving 709-098	_							
Shell Material	<b>Z1</b> = 316 Stainle (Consult Factory Fo	ss Steel or Titanium or Peek Options)		-						
P1 Connector Key Arrangement	(N, A, B, C)	A, B, C)								
P2 Connector Key Arrangement	( <b>N, A, B, C</b> ) (1 = Blunt End Ca	able, Less P2 Connector, Bac	kshell, & (	Overm	old)					
Length In Inches	See Standard Tol	erance Table								
Pressure Cap Option	<b>C</b> = Provided Wit <b>N</b> = No Pressure									
Serial Number	Glenair Use Opti	onal, Omit For None								
CFM Option	Glenair Use Opti	onal, Omit For None								-



#### NOTES

- 1. 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-Tole	rance
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

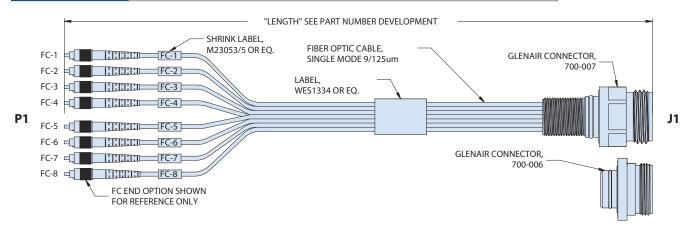


# DEEP WATER SeaKing<sup>™</sup> Fiber Optic



SeaKing<sup>™</sup> BCR or FCR to commercial fiber optic pigtail assembly for I/O-to-board module applications

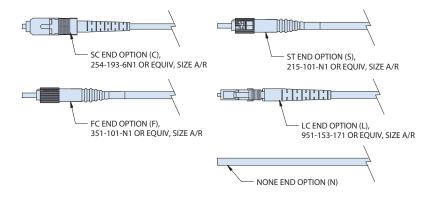
		SeaKing Fiber - How T	o Orde	r					
Sample Part Number	r FA09649			F	<b>Z</b> 1	-0F8	Ν	-XXXX	С
Basic Number	SeaKing Fibe assembly	r Optic receptacle breakout							
J1 Option	B = BCR F	B = BCR F = FCR							
P1 Option	C = SC Leads L = LC Leads S = ST Leads			_					
Shell Material	<b>TC</b> = Titaniur	n <b>Z1</b> = 316 Stainless Steel							
Insert Arrangement	See Table I & Insert Body N	ll Naterial: 316 SST				_			
Key Arrangement	<b>A</b> , <b>B</b> , or <b>C</b> ; N =	= normal,							
Length	In inches (Se	e Standard Tolerance Table)							
Pressure Cap Option	C = Provided N = No Press	With Pressure Caps ure Caps							



#### NOTES

- 1. 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



Rev. 11.16.23

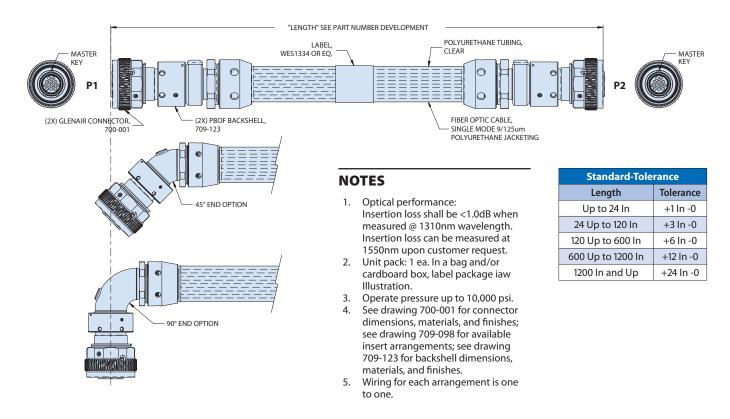


# DEEP WATER SeaKing<sup>™</sup> Fiber Optic



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

		l	ноw то с	RDER				•		•				
Sample Part Number		FA09650	-MF4	-Z1	-N	L	1	S	-N	L	1	S	-XXXX	С
Basic Number	SeaKing Fiber Oppoint-to-point as													
Shell Size & Insert Arrangements	See Insert Arrang	gements Table	_											
Shell Material	<b>Z1</b> = 316 Stainle (Consult Factory	ss Steel For Titanium Or Peek O	ptions)											
P1 Connector Key Arrangements	(N, A, B, C)													
P1 Backshell Style	<b>L</b> = Straight	M = 45 Degree	<b>N</b> = 9	0 Degre	e									
P1 Fill Port Option	<b>0</b> = No	<b>1</b> = Yes												
P1 Swivel/Fixed Option	F = Fixed	<b>S</b> = Swivel												
P2 Connector Key Arrangements	(N, A, B, C)													
P2 Backshell Style	<b>L</b> = Straight	M = 45 Degree	<b>N</b> = 9	0 Degre	ee									
P2 Fill Port Option	<b>0</b> = No	<b>1</b> = Yes												
P2 Swivel/Fixed Option	F = Fixed	<b>S</b> = Swivel												
Length	In inches (See St	andard Tolerance Table)											_	
Pressure Cap Option	<b>C</b> = Provided Wit	h Pressure Caps	N = No Pi	essure	Caps									



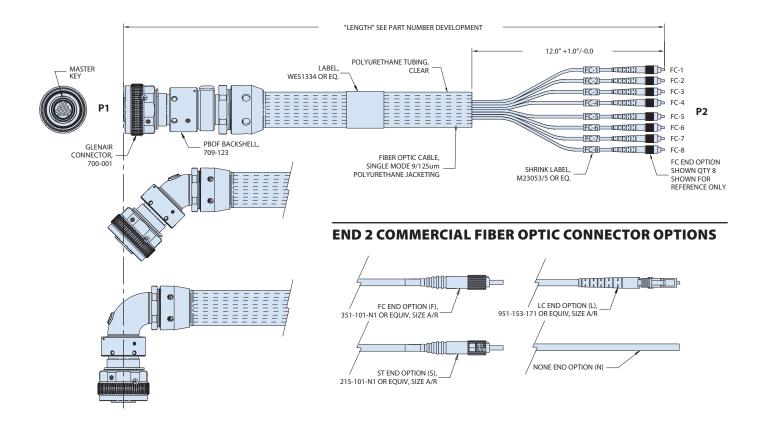


# DEEP WATER SeaKing™ Fiber Optic



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

		SeaKing Fiber - How	To Orde	er								NO	TES
Sample Part Number		FA09781	-MF4	-Z1	-N	L	1	S	-N	-XXXX	С		
Basic Number	SeaKing Fibe out Plug Ass	er Optic PBOF Break- embly										1.	Optical performance: Insertion loss shall be <1.0dB when measured @ 1310nm
Shell Size & Insert Arrangements	See Glenair I	Drawing 709-098											wavelength. Insertion loss can be measured at 1550nm
Shell Material	<b>Z1</b> = 316 Sta (Consult Fact	inless Steel ory For Titanium Or Pe	ek Optic	ons)								2.	upon customer request. Unit pack: 1 ea. In a bag and/or cardboard box, label
P1 Connector Key Arrangements	(N, A, B, C)											3.	package iaw Illustration. Operate pressure up to
P1 Backshell Style	<b>L</b> = Straight	M = 45 Degree	<b>N</b> = 9	0 Deg	ree							4.	10,000 psi. See drawing 700-001 for
P1 Fill Port Option	<b>0</b> = No	<b>1</b> = Yes											connector dimensions, materials, and finishes; see
P1 Swivel/Fixed Option	F = Fixed	<b>S</b> = Swivel											drawing 709-098 for available insert arrangements;
P2 Option	F = FC Leads N = None	L = LC Leads S = ST Leads											see drawing 709-123 for backshell dimensions, materials, and finishes.
Length In Inches	In inches (Se	e Standard Tolerance	Table)									5.	Wiring for each arrangement is one to one.
Pressure Cap Option	<b>C</b> = Provided	With Pressure Caps	<b>N</b> :	= No P	ressu	ire C	aps						



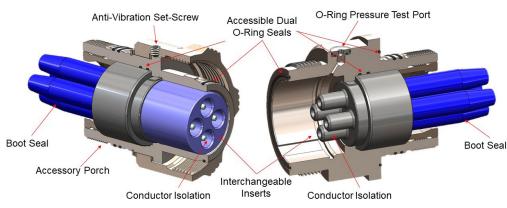
Rev. 11.16.23



# **SeaKing<sup>™</sup> Power**

# 1–6.6kV connectors for deep sea oil & gas primary power junctions

Glenair's SeaKing Power connector family is rated to 10K PSI in open-face or mated condition. These high-voltage (1–6.6kV) and high-amperage (up to 350 Amps) solder cup contact connectors are ready for immediate deployment in overmolded or PBOF configurations for primary power junction applications. Test reports available upon request. A range of shell sizes and contact inserts are available.



- API 16D and 17E-compliant test ports
- Fully redundant dual O-ring sealing
- Indexable flange or threaded bulkhead designs
- O-ring pressure inspection ports available on all BCR and FCR designs
- Factory acceptance testing in both mated and open-face conditions
- Keyed mating interface for mismate prevention





Available configurations and applications

# **CABLE CONNECTOR PLUG (CCP)**



SeaKing<sup>™</sup> Power API 16D and 17E-Compliant Cable Connector Plug (CCP)

- PBOF and overmold compatible cable connector plug
- Super duplex stainless steel or titanium construction with glassreinforced thermoplastic insulator
- Accepts various backshell accessories
- Aggressive coupling nut knurling for easy field mating
- Inspection ports, spanner wrench holes, and coupling nut lock set screws ensure reliable foolproof performance
- Mates with SeaKing Power receptacle assemblies with similar contact arrangement
- Conductor sealing boots protect solder cup wire-to-contact terminations in the event of a flooded hose

#### FLANGE CONNECTOR RECEPTACLE (FCR)



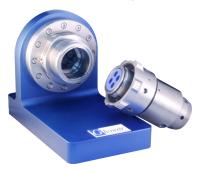
SeaKing™ Power API 16D and 17E-Compliant Flange Connector Receptacle (FCR)

- **FCR** delivers 10K PSI sealing in both mated and open-face condition
- Indexable flange allows receptacle shell rotation for 360° routing flexibility of right-angle-mating cable plugs
- Available API O-ring pressure test ports ensure reliability prior to deployment to ocean floor
- Super duplex stainless steel or titanium shells for complete compatibility with mating CCP
- Wire sealing boots ensure reliable environmental protection of cableto-connector interface

# **BULKHEAD CONNECTOR RECEPTACLE (BCR)**



SeaKing™ Power API 16D and 17E-Compliant Bulkhead Connector Receptacle (BCR)



- BCR is designed for direct threaded bulkhead mounting
- Supplied washer, mounting nut, and bulkhead-mate O-ring seals ensure secure sealing and grounding to equipment housing
- BCR shell equipped with both wrench flats and spanner wrench holes for convenient installation regardless of tool choice
- Available API O-ring pressure test ports ensure reliability prior to deployment
- Mates with SeaKing Power CCP with similar contact arrangement

	SeaKing <sup>™</sup> Power Performance Specific	ations
Pressure Rating	Plug: 10,000 PSI, mated condition Receptacles: 10,000 PSI mated and open face	per ISO 13628-6
Electrical	1–6.6kV, 350 Amps max per contact	per MIL-STD-202, Method 301
Materials	Salt Spray (corrosion) Humidity (steady state) Thermal Cycle	MIL-STD-202, Method 101 MIL-STD-202, Method 103 ISO 13628-6
Power Ratings	3kV, 50 Amp / contact 1kV, 50 Amp / contact 1kV, 150 Amp / contact 1kV, 350 Amp / contact	P/N 700-101-48, 700-106-48 P/N 707-0065, 707-0066 P/N 707-0088, 707-0089 P/N 707-0142



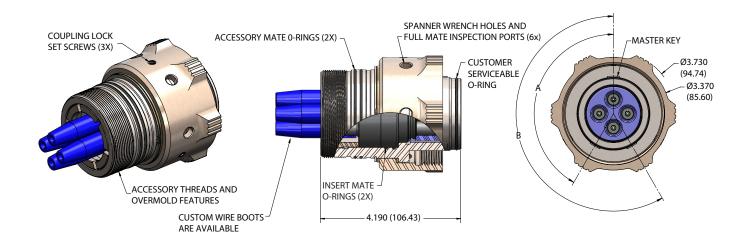


Size 48, 4-way #8 HV contacts, 3kV, 50 amps/contact

### 700-101-48 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 48, 4-WAY #8 HV CONTACTS\*

		How to Ord	ler	_	_		K	ey Positio	ns
Sample Part Numbe	r	700-101	-48HV4	<b>Z1</b>	S	Ν	Position	А	В
Series	<b>700-101</b> = cable c	onnector plug					Ν	150°	210°
Shell Size / Insert Arrangement	-48HV4 = shell siz	e 48 / layout HV4	-				AB	75° 95°	210° 230°
Shell Material	Z1 = SS super dup	lex TC =	= titanium	-			С	140°	275°
Contact Style	P = pins	<b>S</b> = :	sockets		_				
Polarization	N = normal, A, B, C	; see key positions	s table at right						

\*Mates only with 700-106 BCR or FCR







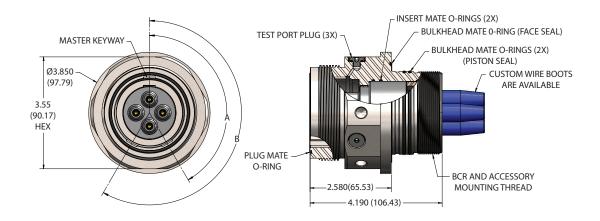
Size 48, 4-way #8 HV contacts, 3kV, 50 amps/contact

# 700-106-48 SEAKING POWER, FLANGE OR BULKHEAD CONNECTOR RECEPTACLE (FCR OR BCR), SIZE 48, 4-WAY #8 HV CONTACTS\*

		How to Orde	r					
Sample Part Number		700-106	-48HV4	<b>Z</b> 1	S	N	В	
Series	700-106 = bulkhe connector recepta	5						
Shell Size / Insert Arrangement	-48HV4 = shell siz	e 48 / layout HV4	-					
Shell Material	Z1 = SS super dup	lex TC =	titanium =					
Contact Style	<b>P</b> = pins	<b>S</b> = :	sockets		-			
Polarization	N = normal, A, B, C	; see key positions	table at rigl	nt		-		
Mounting Option*	F = FCR option and	cludes bulkhead nu d includes indexab cle is mountable to	le mounting	flange	•	er not ind	cluded)	
Shell Option*	API = test ports; o	mit for none						

K	ey Positio	าร
Position	А	В
N	150°	210°
Α	75°	210°
В	95°	230°
С	140°	275°

\*Mates only with 700-101 Cable Connector Plug







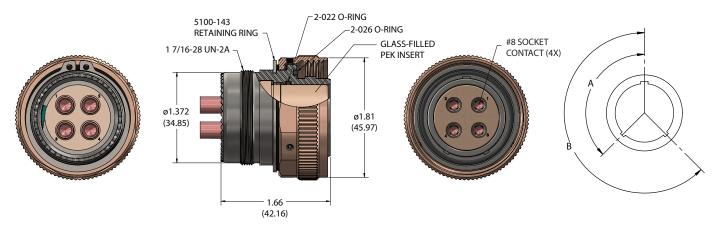
Size P, 4-way #8 HV contacts, 1kV, 50 amps/contact

#### 707-0065-P4 SEAKING POWER, CABLE CONNECTOR PLUG (CCP)\*

		How to Order				
Sample Part Numbe	r	707-0065	-P4	-Z1	S	N
Series	<b>707-0065</b> = cable c	onnector plug (CCP)				
Shell Size / Insert Arrangement	Р4					
Shell Material	<b>Z1</b> = stainless steel	<b>TC</b> = titanium		-		
Contact Style	<b>P</b> = pin (707-0066 o	nly) <b>S</b> = socket (	707-0065	only)	-	
Polarization	N = Normal, A, B, C;	see key positions table a	ıt right			

Key Positions								
Position A B								
Ν	150°	210°						
Α	75°	210°						
В	95°	230°						
С	140°	275°						

\*Mates only with 707-0066 BCR



#### 707-0066-P4 SEAKING POWER, BULKHEAD CONNECTOR RECEPTACLE (BCR)\*

		How to Order							Key Positions	
Sample Part Number		707-0066	-P4	-Z1	S	Ν	[	Position	А	
Series	<b>707-0066</b> = bulk he	ad receptacle (BCR)					[	Ν	150°	
Shell Size / Insert Arrangement	P4		-					A	75°	
	Z1 = stainless steel	TC = titanium		]				B	95° 140°	$\vdash$
Contact Style	P = pin (707-0066 or	nly) <b>S</b> = socket (	707-0065	only)			L			
Polarization	N = Normal, A, B, C;	see key positions table								
*Mates only with 707-0065	5 ССР									
#8 PIN CONTACT (4X)	1.05 (26.67)				.17 (55.12)	200			A	

- 2-025 O-RING

2-029 O-RING

2.025 (45.97) O-RING (3X) J VH-118-S02 RETAINING RING

42

В 210° 210° 230° 275°

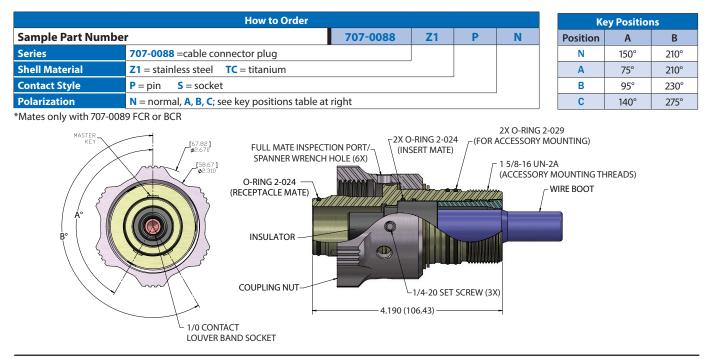
GLASS-FILLED PEK INSERT





Size 32, 1-way #1/0 HV contact, 1kV, 150 amps/contact

#### 707-0088 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 32, 1-WAY #1/0 HV CONTACTS\*



#### 707-0089 SEAKING POWER, FCR/BCR, SIZE 32, 1-WAY #1/0 CONTACTS\*

		How to Order						K	ey Positio	ns
Sample Part Numbe	er	707-0089	<b>Z1</b>	Р	N	-N	-API	Position	А	В
Series	<b>707-0089</b> = flange conne							N	150°	210°
	or bulkhead connector re	•	]					Α	75°	210°
Shell Material	Z1 = stainless steel TC =	= titanium		J				В	95°	230°
Contact Style	P = pin S = socket							С	140°	275°
Polarization	N = normal, A, B, C; see ke	ey positions table	at right							
Mounting Option*	<ul> <li>B = BCR option and includ</li> <li>F = FCR option and includ</li> <li>N = none, receptacle is manual</li> </ul>	les indexable mo ountable to a thre	unting fla	nge						
Shell Option* Mates only with 707-008	<b>API</b> = test ports; omit for	none								
MASTER KEY Ø2.600 (66.04) 2.340 (59.44) (HEX FLATS)	WAY	(PLUG			-2.580 (e		-RING 2-024 (RT MATE)	O-RING (BULKHI	2-033 EAD MATE 3-16 UN-2/ AND ACCE JNTING TH 2X O-RING BULKHEAD	A ESSORY IREADS 2-029





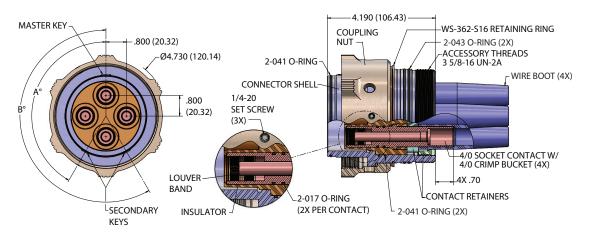
Size 64, 4-way #4/0 HV contact, 1kV, 350 amps/contact

How to Order							
Sample Part Nun	707-0142	1	N				
Series	<b>707-0142</b> = SeaKing Po						
	-1 = cable connector plu	ug (CCP)					
Connector Style	-6 = flange connector re	eceptacle (FCR)					
	-7 = bulkhead connector receptacle (BCR)						
Key Position	N = normal, A, B, C; see	key positions table					

Key Positions								
Position	А	В						
Ν	150°	210°						
Α	75°	210°						
В	95°	230°						
С	140°	275°						

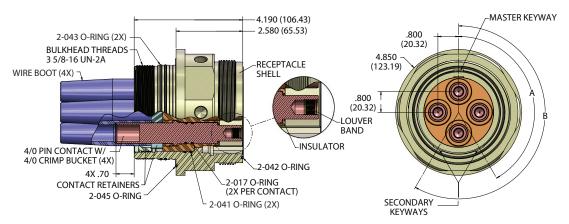
#### 707-0142-1 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 64, 4-WAY #4/0 HV CONTACTS\*

\*Mates only with 707-0142-6 FCR or 707-0142-7 BCR



# 707-0142-7 SEAKING POWER, BULKHEAD CONNECTOR RECEPTACLE (BCR), SIZE 64, 4-WAY #4/0 HV CONTACTS\*

\*Mates only with 707-0142-1 CCP







Size 64, 4-way #4/0 HV contact, 1kV, 350 amps/contact

#### 707-0142-6 SEAKING POWER, FLANGE CONNECTOR RECEPTACLE (FCR), SIZE 64, 4-WAY #4/0 HV CONTACTS\*

\*Mates only with 707-0142-1 CCP

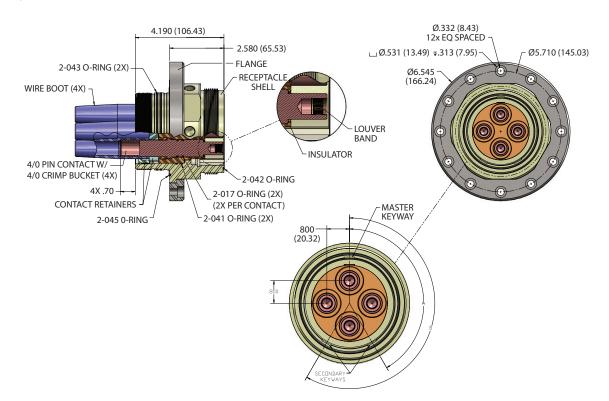




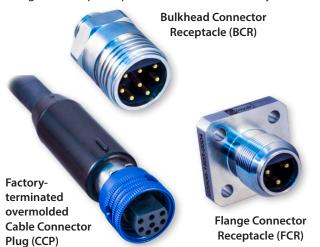
Photo: NOAA

# ADVANCED PERFORMANCE SERIES 55 TYPE 10K PSI SuperG55<sup>TM</sup>

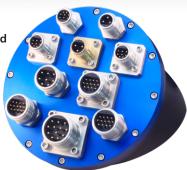
High-pressure open face bulkhead (BCR) and flange receptacles (FCR)

The SuperG55<sup>™</sup> family of dry-mate underwater deep-sea high-pressure connectors are a revolutionary new design of the popular industry-standard used in countless ROV, underwater camera, diver communications, lights, pan and tilts, and other deep subsea applications.

Available in multiple shell sizes, the SuperG55<sup>™</sup> is manufactured from 316L Stainless Steel with insert molded contact assemblies designed for pressure-sealed applications up to 10K PSI mated and unmated. Intermateable and intermountable with other "55" series connectors, the Glenair solution introduces a long list of product innovations designed to improve performance and durability. Our PBOF versions, for example, utilize



easy-to-assemble threaded fittings which deliver both superior sealing performance while reducing installation time. Other innovations include full-mate inspection ports, improved solder cup contact design and more. Cable plugs and receptacles available in attachable (userterminatable) versions as well as factory overmolded singleended whips.



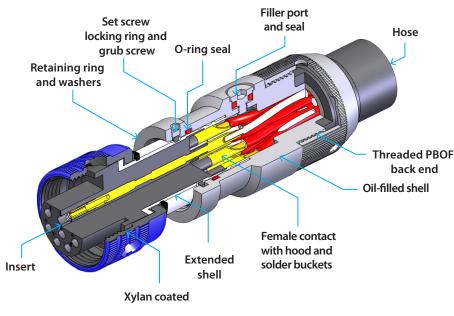
ТМ

- 10,000 PSI mated/ unmated (approx. 22,500ft/7,000m)
- Recessed socket contacts in plugs for electrical safety
- Intermateable and intermountable with other "55" series connectors
- 4 shell sizes 15, 20, 24 and 32 with 3 to 39 contacts
- PBOF versions available
- 600 VDC, 5 to 18 Amps (dependent on conductor and cable size and make-up)

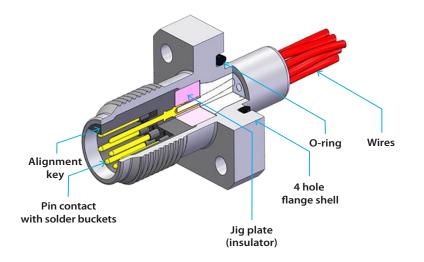


Key mechanical and environmental features

# SUPERG55<sup>™</sup> PRESSURE-BALANCED OIL-FILLED CABLE CONNECTOR PLUG (CCP)



#### SUPERG55<sup>™</sup> FLANGE CONNECTOR RECEPTACLE (FCR)



Material Finish Codes									
Code	Code Material/Finish Code Material/Finish								
	Anodized Aluminum	PK	Composite Thermoplastic (PEEK)						
NAB2	Aluminum Bronze	В	Brass						
Т	Titanium	Alternative materials available, contact factory							

SuperG55™ Performance Specifications							
Mating Cycles	500						
Pressure	689 Bar (10,000 PSI) Mated and Un-mated						
Operating Temperature	-20°C to +90°C						
Voltage Rating	600 VDC / 440 Vac						
Current (max.)	5 to 18 Amps (dependant on contact and cable conductor sizes)						

SuperG55™ Material/Finish							
Shells	316L Stainless Steel/ Passivated						
Insulator	PEEK/NA						
Insert	Neoprene/NA						
Contacts	Copper Alloy/Gold Plated						
O-rings	Nitrile/NA						
Overmold and Cable	Polyurethane or Neoprene/NA						
Coupling Nut	316L Stainless Steel/ Protective Coating Blue						
Bulkhead Receptacle Tails	PTFE Insulated 16 AWG Wire/NA						
Cable	Polyurethane or Neoprene Jacketed/NA						

NON-STANDARD MATERIALS: Other material options are available as part of our non-catalog offerings including anodized aluminum, titanium, and aluminum bronze. Glenair is also able to supply SuperG55<sup>™</sup> interconnects in composite thermoplastic (PEEK) to meet application requirements for reduced cathodic corrosion as well as weight reduction without affecting connector performance.

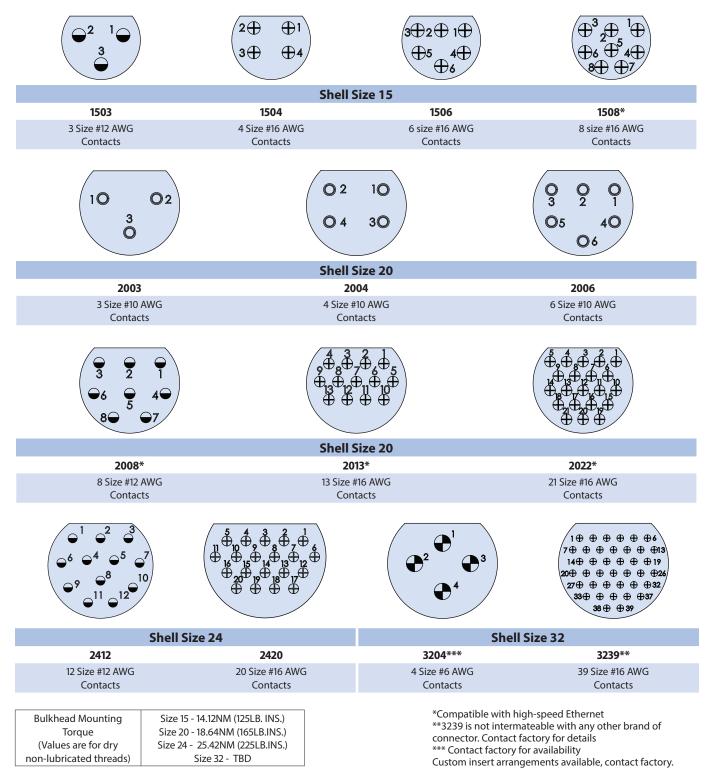
HIGH-SPEED ETHERNET: The SuperG55<sup>™</sup> Ethernet option is available in the 1508, 2013 and 2022 contact configurations and provides both high speed (Up to 1GB) and power (600 Volts) in a full subsea environment (10,000 PSI). Gigabit speed data transfer up to a distance of 75mtrs.





# Insert arrangements

SUPERG55™ INSERT ARRANGEMENTS Mating face view of pin insert (socket insert IDs are reversed)







# SuperG55 Series connectors

### **G55 A1 ATTACHABLE CABLE CONNECTOR PLUG (CCP)**



	SuperG55™ - How To Order								
Sample Part Number		G55A1	-1508	-0000					
Series	SuperG55 <sup>™</sup> = underwate dry-mate, long version (C attachable								
Shell Shell Size/Insert Arrangement Size	See shell size / insert arra (page 48)	ngements							
Overall Length	In feet ( <b>0000</b> = no cable,	In feet ( <b>0000</b> = no cable, <b>0001</b> = one foot, etc.)							
Potting Boot	<b>PB</b> = potting boot; omit	PB = potting boot; omit for none. Not required if used for OFR1							
Material Option	Omit for stainless steel <b>B</b> = brass coupling nut a		<b>PK</b> = peek See materi						

# G55 01 STRAIGHT OVERMOLDED, CABLE PLUG (CCP)



SuperG55™ - How To Order							
Sample Part Number		G5501	-1508	-0004			
Series	SuperG55 <sup>™</sup> = under dry-mate, straight ov						
Shell Size/Insert Arrangement	See shell size/insert (page 48)	arrangements	-				
Cable Length	In feet ( <b>0001</b> = one f	In feet ( <b>0001</b> = one foot, <b>0002</b> = two feet etc.)					
Inch Increments	3, 6 or 9 inches; omit	3, 6 or 9 inches; omit for whole feet lengths					
Material Option	Omit for stainless ster <b>B</b> = brass coupling nu		<b>PK</b> = peek coupling nut and barrel nd barrel See material options on page 47				
Back-to-Back	B2B = back-to-back; omit if not required						

#### G55 R1 RIGHT ANGLE OVERMOLDED, CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order								
Sample Part Number	G55R1	-1508	-0004					
Series	SuperG55™ = underwater dry-mate, right angle overmolded CCP							
Shell Size/Insert Arrangement	See shell size / insert arran	See shell size / insert arrangements (page 48)						
Cable Length	In feet ( <b>0001</b> = one foot, <b>0</b>	In feet ( <b>0001</b> = one foot, <b>0002</b> = two feet etc.)						
Inch Increments	3, 6 or 9 inches; omit for w	hole feet le	ngths					
Material Option	Omit for stainless steel <b>B</b> = brass coupling nut and							
Back-to-Back	B2B = back-to-back; omit if not required							





# SuperG55 Series connectors

### **G55 OF1 STRAIGHT OIL-FILLED CABLE CONNECTOR PLUG (CCP)**



SuperG55™ - How To Order									
Sample Part Number	G550F1	-1508	-0010						
Series	SuperG55 <sup>™</sup> = Underwate straight oil-filled CCP								
Shell Size/Insert Arrangement	See shell size / insert arran								
Overall Length	In feet ( <b>0000</b> = no cable, r	In feet ( <b>0000</b> = no cable, no hose <b>0001</b> = one foot, etc.)							
Back-to-Back*	B2B = back-to-back (min.	B2B = back-to-back (min. 7ft hose length); omit if not required							
*Consult factory for additi	onal back-to-back options								

#### G55 OFR1 RIGHT ANGLE OIL-FILLED CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order							
Sample Part Number		G55OFR1	-1508	-0010			
Series	SuperG55™ = Underwate right angle oil-filled CCP	er dry-mate,					
Shell Size/Insert Arrangement	See shell size / insert arrar	See shell size / insert arrangements (page 48)					
Overall Length	In feet ( <b>0000</b> = no cable, r	no hose <b>0001</b> = 0	one foot, etc	z.)			
Back-to-Back* B2B = back-to-back (min. 7ft hose length); omit if not required							
*Consult factory for additi	onal back-to-back options						

#### **G55 06 FLANGE CONNECTOR RECEPTACLE (FCR)**



SuperG55™ - How To Order							
Sample Part Number G5506 -2013 -0004							
Series	SuperG55™ = underwater dry-mate, flange connector receptacle (FCR)						
Shell Size/Insert Arrangement	See shell size / insert arrang	jements (page 48)					
Cable Length	In feet ( <b>0001</b> = 1 foot, <b>0004</b> = 4 feet, standard length)						
Material Option	Omit for stainless steelPK = peek coupling nut and barrelB = brass coupling nut and barrelSee material options on page 47						





# **SuperG55 Series connectors**

#### G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR)



SuperG55™ - How To Order							
Sample Part Number	G5507	-1508	-0004				
Series		SuperG55™ = underwater dry-mate, bulkhead connector receptacle (BCR)					
Shell Size/Insert Arrangement	See shell size / insert arrang	See shell size / insert arrangements (page 48)					
Cable Length	In feet ( <b>0001</b> = 1 foot, <b>000</b> 4	= 4 feet, standar	d length)	-			
Material Option	Omit for stainless steelPK = peek coupling nut and barrelB = brass coupling nut and barrelSee material options on page 47						

#### G55 A2 ATTACHABLE CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order							
Sample Part Number         G55A2         -1508         -0000							
Series	SuperG55™ = underwater dry-mate, attachable cable connector receptacle (CCR)						
Shell Size/Insert Arrangement	See shell size / insert arrang	jements (page 48)	-				
Cable Length	In feet ( <b>0000</b> = no cable, <b>00</b>	In feet ( <b>0000</b> = no cable, <b>0001</b> = one foot, etc.)					
Material Option	Omit for stainless steel <b>B</b> = brass coupling nut and			g nut and barı ns on page 47			

\*Currently only 1504, 1506, 1508, 2013, 2022 & 2420 insert arrangements are available.

#### G55 02 STRAIGHT OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)







# SuperG55 Series connectors

# G55 R2 RIGHT ANGLE OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order							
Sample Part Numbe	r	G55R2	-1508	-0004			
Series	SuperG55 <sup>™</sup> = underwater right angle overmolded CC						
Shell Size/Insert Arrangement	See shell size / insert arrang	See shell size / insert arrangements (page 48)					
Cable Length	In feet ( <b>0001</b> = one foot, <b>0</b> 0	<b>002</b> = two f	feet etc.)	-			
Inch Increments	3, 6 or 9 inches; omit for wl	nole feet le	ngths				
Material Option	Omit for stainless steelPK = peek coupling nut and barrelB = brass coupling nut and barrelSee material options on page 47						
Back-to-Back	<b>B2B</b> = back-to-back; omit i	f not requi	red				

# G55 OF2 STRAIGHT OIL-FILLED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order							
Sample Part Number		G550F2	-1508	-0010			
Series	SuperG55 <sup>™</sup> = Underwate straight oil-filled CCR	uperG55™ = Underwater dry-mate, traight oil-filled CCR					
Shell Size/Insert Arrangement*	See shell size/insert arran	iee shell size / insert arrangements (page 48)					
Overall Length	In feet ( <b>0000</b> = no cable, r	In feet (0000 = no cable, no hose, 0001 = one foot, etc.)					
Back-to-Back**	<pre>c-to-Back** B2B = back-to-back (min. 7ft hose length); omit if not required</pre>						

\*Currently only 1504, 1506, 1508, 2013, 2022, and 2420 insert arrangements are available \*\*Consult factory for additional back-to-back options

# G55 OFR2 RIGHT ANGLE OIL-FILLED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order							
Sample Part Number		G55OFR2	-1508	-0010			
Series	SuperG55 <sup>™</sup> = Underwate right angle oil-filled CCR	er dry-mate,					
Shell Size/Insert Arrangement*	See shell size/insert arrar	See shell size / insert arrangements (page 48)					
Overall Length	וn feet ( <b>0000</b> = no cable, ו	In feet ( <b>0000</b> = no cable, no hose, <b>0001</b> = one foot, etc.)					
Back-to-Back*	ack-to-Back* B2B = back-to-back (min. 7ft hose length); omit if not required						
*Currently only 1504 1504	Currently only 1504, 1506, 1508, 2013, 2022, and 2420 insert arrangements are available						

\*Currently only 1504, 1506, 1508, 2013, 2022, and 2420 insert arrangements are available \*\*Consult factory for additional back-to-back options





# **SuperG55 Series connectors**

#### G55 D1 DUMMY SEALING PLUG (DSP)



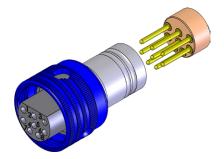
SuperG55™ - How To Order							
Sample Part Number G55D1 -1508 -0000							
Series	SuperG55 <sup>™</sup> = dummy sealin	uperG55™ = dummy sealing plug (DSP)					
Shell Size/Insert Arrangement	See shell size / insert arrange	See shell size / insert arrangements (page 48)					
Cable Length	<b>0000</b> = no cable			-			
Material Option	Omit for stainless steelPK = peek coupling nut and barrelB = brass coupling nut and barrelSee material options on page 47						

#### G55 D2 DUMMY SEALING RECEPTACLE (DSR)



SuperG55™ - How To Order								
Sample Part Number G55D2 -1508 -0000								
Series	SuperG55™ = dummy sea (DSR)	aling receptacle						
Shell Size/Insert Arrangement	See shell size / insert arran	gements (page 48	)					
Cable Length	<b>0000</b> = no cable							
Material Option	Omit for stainless steel <b>PK</b> = peek coupling nut and barrel <b>B</b> = brass coupling nut and barrelSee material options on page 47							

#### G55 M1 SOCKET TO SOCKET (CCP)



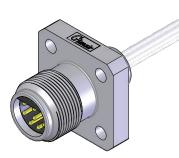
SuperG55™ - How To Order							
Sample Part Numb	er G55	M1	-1508	-0001			
Series	SuperG55™ = underwater dry- back-to-back socket CCP	nate,					
Shell Size/Insert Arrangement	See shell size / insert arrangeme (page 48)	nts					
Cable Length	In feet ( <b>0000</b> = no cable, <b>0001</b> =	one fo	oot, etc.)	-			
Material Option	Omit for stainless steel B = brass coupling nut and barr			pling nut and ptions on pag			





SuperG55 Series custom connectors

### G55 06 FLANGE CONNECTOR RECEPTACLE (FCR) WITH EARTH LEAD



SuperG55™ - How To Order								
Sample Part Number		G5506	-1508	-0004	-EL			
Series	SuperG55 <sup>™</sup> = underwater FCR with earth lead	dry-mate,						
Shell Size/Insert Arrangement	See shell size / insert arran	gements (page	e 48)					
Cable Length	In feet ( <b>0001</b> = 1 foot, <b>000</b>	<b>4</b> = 4 feet, stan	dard len	gth)				
Earth Lead	<b>EL</b> = earth lead (ground)							
Material Option	<b>T</b> = titanium; omit for stair	less steel						

# G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR) WITH EARTH LEAD



SuperG55™ - How To Order							
Sample Part Number		G5507	-1508	-0004	-EL		
Series	SuperG55™ = underwater dry-mate, BCR with earth lead						
Shell Size/Insert Arrangement	See shell size / insert arrange	See shell size / insert arrangements (page 48)					
Cable Length	In feet ( <b>0001</b> = 1 foot, <b>0004</b>	n feet ( <b>0001</b> = 1 foot, <b>0004</b> = 4 feet, standard length)					
Earthing Lead	EL = earth lead (ground)						
Material Option	<b>T</b> = titanium; omit for stainle	ess steel					

#### G55 06IF FLANGE CONNECTOR RECEPTACLE (FCR) WITH INDEXABLE FLANGE



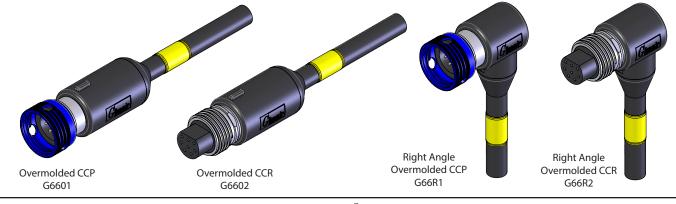
SuperG55™ - How To Order										
Sample Part Number		G5506IF	-1508	-0004						
Series	SuperG55 <sup>™</sup> = underwater dry-mate, flange connector receptacle (FCR) with indexable flange									
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)									
Cable Length	In feet ( <b>0001</b> = 1 foot, <b>0004</b> = 4 feet, standard length)									
Material Option	Omit for stainless steelPK = peek coupling nut and barrelB = brass coupling nut and barrelSee material options on page 47									





SuperG66 reverse-gender connectors

#### **G66 OVERMOLDED CABLE CONNECTOR PLUGS AND RECEPTACLES**



#### G66 OIL-FILLED CABLE CONNECTOR PLUGS AND RECEPTACLES



#### **G66 CABLE CONNECTOR PLUGS AND BULKHEAD, FLANGE AND CABLE CONNECTOR RECEPTACLES**

COMING SOON: SuperG66<sup>™</sup> - Consult factory for availability

**SuperG66**<sup>™</sup> = underwater dry-mate,

See shell size / insert arrangements

**0000** = no cable; also available in

cable connector plug (CCP)

**G66A1** 



**Cable Connector** 

Plua

G66A1

Shell Size/Insert

Arrangement

**Cable Length** 

Series

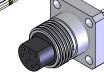
**Sample Part Number** 



G6607



(page 48)







Receptacle G66A2

**Dummy Sealing** Receptacle

**Right Angle** 

Oil-filled CCR

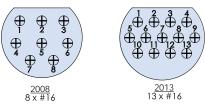
G660FR2

AND RECEPTACLE

G66D2

**Dummy Sealing** Plua G66D1

# **INSERT ARRANGEMENTS**



Additional insert arrangements can be engineered, contact factory



-2008

-0000

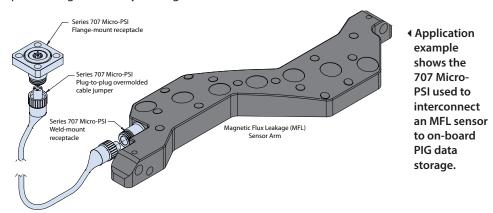


Series 707 Micro-PSI affords PIG designers the opportunity to design out legacy large form-factor connectors with a dramatically smaller high-speed interconnect solution.

# 10K PSI SOLUTION Micro-PSI Microminiature bigh-spec

# Microminiature high-speed, high-pressure connectors

The Series 707 Micro-PSI is a micro miniature10K PSI high-pressure, high-temperature interconnect designed specifically for pipeline inspection applications in Magnetic Flux Leakage and ultrasonic pipeline inspection PIGs. The Micro-PSI insert arrangements feature high-density micro TwistPin layouts for sensor applications and high-speed Gigabit Ethernet, and a Coax contact layout for 3 GHz performance. Micro-PSI connectors are supplied as discrete plugs, or overmolded plug cordsets with rugged Viton or Polyurethane jacketing. Bulkhead and flange mount receptacles are 10K PSI open-face pressure sealed, and incorporate fused vitreous glass inserts for <1X10<sup>-7</sup> scc He/sec hermetic performance. Serviceable O-rings on plugs and face O-rings on receptacles provide high-reliability sealing.



- 10,000 PSI pressure rated
- 3 GHz Coax

Actual size!

- Less than 1 x 10<sup>-7</sup> scc He/ sec @ 1 ATM pressure differential
- Special-purpose high density (.056" contact spacing) intelligent inspection (PIG) connector series
- 2 Amp high-speed Gigabit Ethernet-ready
- -20° to +150°C temperature range
- High-density, small form-factor

# MICRO-PSI

# 10K PSI SOLUTION Micro-PSI High-Speed, High Pressure ILI Connector



**Specifications and insert arrangements** 

# MICRO PSI HOW TO ORDER, SPECIFICATIONS, MATERIALS AND FINISHES

Micro-PSI - How To Order											
Sample Part Number			707-0264	-7	ME4	<b>Z</b> 1	S	Ν			
Series/Basic P/N	707-0264 = Series and Basic Part Number										
Connector Style	1 = CCP (Cable Connector Plug)5 = CCR (Cable Connector Receptacle)6 = FCR (Flange Mount Receptacle)7 = BCR (Bulkhead Mount Receptacle)										
Shell Size / Layout	ME1, ME4, ME6, MG10, MK19 (See Insert Arrangements diagram)										
Shell Material	Z1 = Stainless Steel										
Contact Type and Termination Style	Plugs P = Pin/Solder Cups C = Pin/PCB Terminals	Receptacles S = Socket/ D = Socket/					_				
Clocking Position	N = Normal, A, B, C (See Key and Keyway	Positions table	below)					-			

#### **Performance Ratings**

# Connector Pressure Ratings:

10,000 PSI (Open face receptacle) 10,000 PSI (Mated CCP)

Pressure Tested To:

10,000 PSI per ISO 13628-6

#### **Electrical Performance:**

Insulation Resistance: 1000 Meghohms at 500 VDC per EIA-364-21 Coax Performance: DC to 3 GHz Temperature Range: -20°C to +150°C

#### Hermeticity:

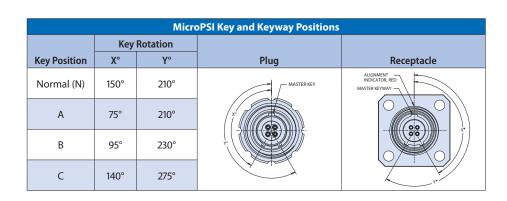
<1 x 10<sup>-7</sup> scc He/sec @ 1 ATM pressure differential; receptacles only

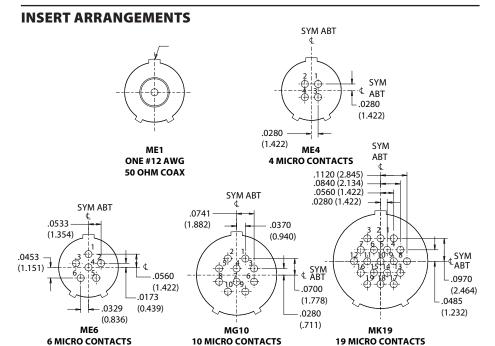
#### **Connector Material / Finish**

Connector Shell: 316L SST/passivated Coupling Ring: nickel bronze/None O-rings: Viton 90 durometer/none Contacts: nickel-iron alloy/gold over nickel Hermetic Seal: vitreous glass/none

#### NOTES

- Plug connectors typically supplied as prewired factory cable assemblies with Viton<sup>®</sup> overmolding for caustic chemical resistance
- Receptacle connectors commonly supplied as prewired pigtails or flex jumpers for direct connection to printed circuit boards and / or data drives
- High-speed Ethernet up to 1Gbps









Cable plugs and receptacles

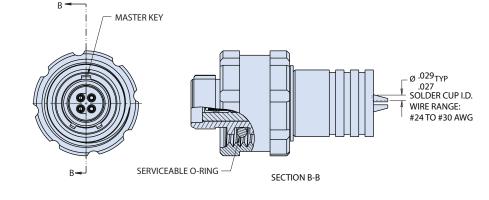
#### 707-0264-1 MICRO-PSI CABLE CONNECTOR PLUG

- 10K PSI rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance
- Ultra small form-factor
- Mates with 707-0264-5 CCR, 707-0264-6 FCR and 707-0264-7 BCR



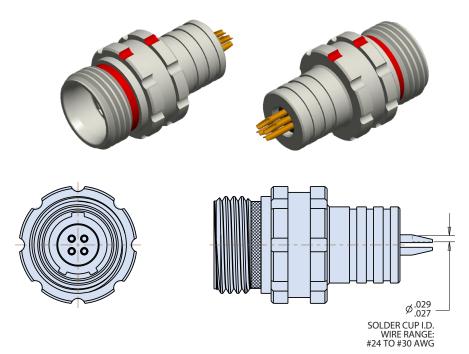






#### 707-0264-5 MICRO-PSI CABLE CONNECTOR RECEPTACLE

- 10K PSI open-face rated
- Glass-to-metal sealed, <1X10<sup>-7</sup> scc He/sec hermeticity
- Operating temperature -20° to +150° C
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs





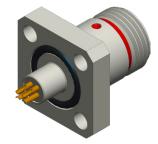


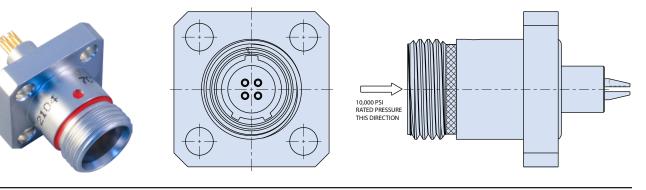
### **Receptacles**

#### 707-0264-6 MICRO-PSI FLANGE MOUNT RECEPTACLE

- 10K PSI open-face rated
- Glass-to-metal sealed, <1X10<sup>-7</sup> scc He/sec hermeticity
- Operating temperature -20° to +150° C
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs

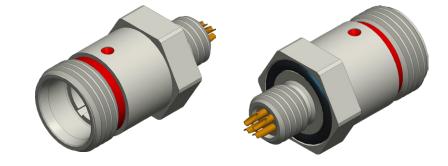


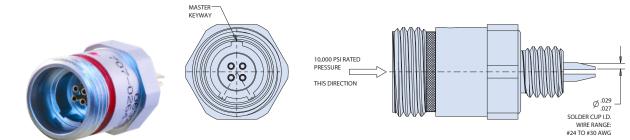




#### 707-0264-7 MICRO-PSI BULKHEAD MOUNT RECEPTACLE

- 10K PSI open-face rated
- Glass-to-metal sealed, <1X10<sup>-7</sup> scc He/sec hermeticity
- Operating temperature -20° to +150°C
- Alignment and full-mate indicators
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs





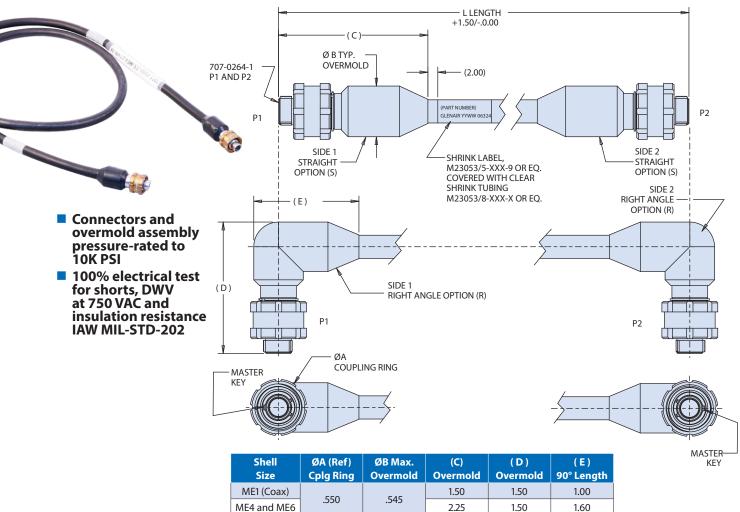




### Overmolded and pigtail cable assemblies

#### 7071-0069 MICRO-PSI OVERMOLDED PLUG-TO-PLUG / PIGTAIL CABLE ASSEMBLY

Micro-PSI - How To Order									
Sample Part Number		7071-0069	-S	R	-ME4	-Z1	U	Ν	-4
Series / Basic P/N	7071-0069 = Back-to-Back or Pigtail Plu	g Cable Assembly							
Overmold Style (P1)	R = Right Angle S = Straight								
Overmold Style (P2)	R = Right Angle S = Straight N = None (pigtail assembly)								
Shell Size / Contact Layout	ME1, ME4, ME6, MG10, MK19 (See Insert Arrangements diagram pg. 57)								
Plug Shell Material	Z1 = Stainless Steel								
Overmold and Jacket Mtrl	V = Viton U = Polyurethane								
Clocking Position	N = Normal, A, B, C (See page 59)								
Length (inches)	Length in inches, i.e. 4 equals 4 inches								



.675

.750

.675

.750

2.25

2.25

1.50

1.65

1.60

1.80

MG

MK

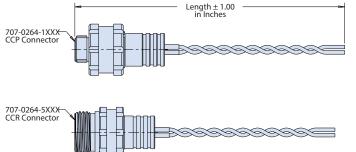


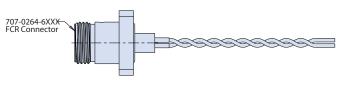


Flying-lead pigtail assemblies/protective covers

#### 7071-0572 MICRO-PSI FLYING-LEAD PIGTAIL ASSEMBLY

Micro-PSI - How To Order								
Sample Part Number		7071-0572	7	-ME4	-Z1	S	Ν	-16
Series/Basic P/N	7071-0572 = Flying-Lead Pigtail Cable	7071-0572 = Flying-Lead Pigtail Cable Assembly						
Connector Style	1 = CCP  5 = CCR  6 = FCR  7 = BCR	$\mathbf{I} = \mathbf{CCP}  5 = \mathbf{CCR}  6 = \mathbf{FCR}  7 = \mathbf{BCR}$						
Shell Size / Contact Layout	ME1, ME4, ME6, MG10, MK19 (See Ins	ME1, ME4, ME6, MG10, MK19 (See Insert Arrangements diagram pg. 57)						
Plug Shell Material	Z1 = Stainless Steel	Z1 = Stainless Steel						
Contact and Termination Style	<b>S</b> = Socket Contacts (for receptacles)	S = Socket Contacts (for receptacles) P = Pin Contacts (for plug)						
Clocking Position	N = Normal							
Flying Lead Length (inches)	Length in inches (tolerance ±1.00 inches. Minimum 4 inches.)							



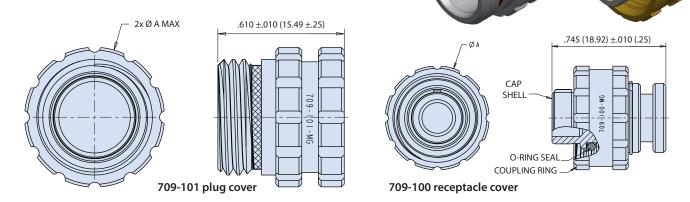




- Plugs rated 10K PSI mated condition
- Receptacles rated 10K PSI open-face and mated
- 100% electrical test for shorts, DWV at 750 VAC and insulation resistance IAW MIL-STD-202

#### 709-100 MICRO-PSI PRESSURE-RATED PROTECTIVE COVERS: 709-101 PLUG / 709-100 RECEPTACLE

- 10K PSI rated, mated condition
- Red alignment indicator on receptacle cover for accurate mating, full-mate indicator on plug cover
- Serviceable O-ring on receptacle cover for reliable sealing and easy maintenance





## HIGH-DENSITY

# AquaMouse

## Small form-factor 3500 PSI

**O**riginally developed for petroleum pipeline inspection equipment, Series 802 connectors are available in ten sizes from 1 to 130 contacts and equipped with Viton® O-rings to withstand exposure to corrosive chemicals and high temperature environments. These connectors feature high density crimp Mighty Mouse inserts, 316 stainless steel or marine bronze shells and a piston O-ring for hydrostatic sealing. Series 802 insulated wire, panel mount receptacles can be ordered as square flange, in-line or jam-nut versions. Choose integral shield termination platform or accessory thread for use with a variety of strain relief options. Crimp style gold–plated crimp contacts accept #12–30 wire. Connectors are backfilled with epoxy potting compound. Hermetic glass–sealed connectors come with solder cup contacts (non-removable) or PC tails. 100% tested to meet 1 x 10-7 cc/sec helium leakage. Open face pressure rating 3500 PSI.

- 3500 PSI pressure rated
- High-temperature and corrosive chemicalresistant Viton<sup>®</sup> or Nitrile O-rings
- Ultraminiature #23 contacts
- Size #20, #20HD, #16, #12, #8 signal, power, fiber optic and shielded contacts
- Discrete connectors and turnkey cable assemblies

#### AQUAMOUSE CONNECTOR CONFIGURATIONS AND CLASSES



Series 802 Plugs



Series 802 Jam Nut Mount



Series 802 Square Flange Receptacle



Series 802 Hermetic



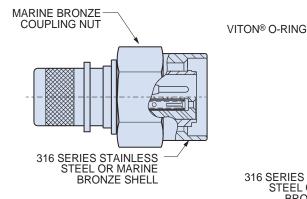
Series 802 Hermetic Bulkhead Feed-Thru

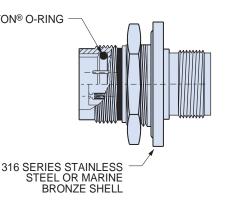


## HIGH-DENSITY 2400M / 3500 PSI Small Form-Factor Submersible

Series 802 AquaMouse<sup>™</sup> performance specifications and material and finish

### Glenair Series 802 AquaMouse™ Delivers High-Pressure Sealing and Rugged Design in a Miniature Package





#### **Stainless Steel or Marine Bronze**

Available in ten sizes from 1 to 130 contacts, Series 802 connectors feature 316 stainless steel or marine bronze shells. Viton<sup>®</sup> o-rings resist high temperature and corrosive chemicals.

lenair.

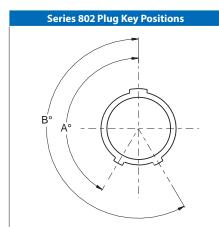
#### 3500 PSI

These connectors withstand up to 3500 PSI hydrostatic pressure in a mated condition. Hermetic versions withstand 1000 PSI open face pressure.

#### Series 802 Plug

Series 802 Receptacle

#### **AQUAMOUSE SPECIFICATIONS AND PLUG KEY POSITIONS**



Key Ro	tation
A°	B°
150°	210°
75°	210°
95°	230°
140°	275°
75°	275°
9°	210°
	150° 75° 95° 140° 75°

Performance Specifications				
Current Rating	#23–5 A, #20–7.5 A, #16–13 A, #12–23 A			
Dielectric Withstanding Voltage	#23-750 VAC, #20HD-1000VAC, #16 and #12-1800 VAC			
Insulation Resistance	5000 megohms minimum			
Operating Temperature	-65° C. to +175° C.			
Hydrostatic Pressure	3500 PSI mated, 1000 PSI open face (hermetic)			
Shock	300 g.			
Vibration	37 g.			
Durability	2000 mating cycles			

	Material and Finish
Shells, Jam Nuts	316 stainless steel or marine bronze
Coupling Nuts	Marine bronze, unplated
Contacts	Copper alloy, 50 µInch gold plated. Socket hood: stainless steel, passivated. Hermetic pin contacts: Nickel-Iron alloy per ASTM-F-30, 50 µInch gold plated.
Insulators	Liquid crystal polymer (LCP) , 30% glass-filled
Contact Retention Clip	Beryllium copper alloy
Interfacial Seal, O-rings	Viton Rubber
Interfacial seal, rear grommet	Fluorosilicone rubber, blue
O-rings	Viton®

## 5000 PSI PRESSURE-RATED Geo-Marine®

### High-pressure harsh-environment connectors and overmolded cables for inline inspection pigs and shallow subsea applications

Designed for use in oceanographic, geophysical and other severe industrial environments, Glenair Series 22 Geo-Marine<sup>®</sup> Connectors and Cables are the ultimate harsh-environment power and signal connector solution. Built to withstand hydrostatic pressures up to 5,000 PSI and exposure to extreme temperatures and corrosives, the Series 22 Geo-Marine<sup>®</sup> is ideally suited for applications such as intelligent pipeline inspection, towed array sonar systems, submersibles and ROVs, offshore oil drilling equipment, seabed exploration, well monitoring equipment, and digital seismic streamers.



SHALLOW

Geo-Marine® plugs are equipped with arctic coupling nuts—made from marine-grade naval bronze with easy-to-grip castellated knurling and a powerful ratcheted anti-decoupling mechanism which guarantees reliable mating and demating performance in even the harshest environments. Supplied as discrete connectors or more typically in build-to-print overmolded cable assemblies.

## Geo-Marine®

- **5000 PSI pressure rated**
- Marine Grade 316 stainless steel machined shells and Naval Bronze coupling rings
- High-pressure environmental and hermetically sealed receptacles for field applications
- Power and signal insert arrangements from 2 to 128 contacts
- Anti-vibration ratcheted coupling nuts with castellated knurling
- Available Viton<sup>®</sup> overmolded cable assemblies



## 5000 PSI PRESSURE-RATED **Geo-Marine® Connectors**



High-pressure fused-glass underwater / harsh-environmental connectors



#### **Range of Offerings**

Series 22 Geo-Marine<sup>®</sup> connectors are supplied with either fused-glass or high grade thermoplastic insulators. Both classes of connectors are supplied with rugged, corrosionresistant materials. Low-profile and scoop-proof cable plugs and receptacles, as well as bulkhead feed-thrus are available. Speciallydesigned cable sealing backshells



as well as EMI/RFI shield termination backshells and environmentally-sealed protective covers complete the range of discrete product offerings. 35 insert arrangements (contact sizes #12, #16, #20 and #22) are tooled and fully available. Special inline single-pin HTHP glass fused contacts also available.

#### WIDE RANGE OF PLUG CONFIGURATIONS WITH ANTI-GALLING ARCTIC COUPLING NUTS



Cable plug with accessory threads



Cable plug with overmold adapter



Panel-mounted plug



**Factory overmolded** plug

#### HIGH-PRESSURE ENVIRONMENTAL AND FUSED-GLASS RECEPTACLE CONFIGURATIONS



Jam Nut

In-Line

Square Flange









**Bulkhead Feed-Thru** 

Single-pin HTHP

#### RUGGEDIZED STAINLESS STEEL BACKSHELLS AND OTHER CONNECTOR ACCESSORIES



**Environmental strain** relief backshell



Overmolding adapter



Solder-Mount

**Right-angle** strain relief backshell



**Environmentally sealed** protective covers



## 5000 PSI PRESSURE-RATED Geo-Marine<sup>®</sup> Connectors

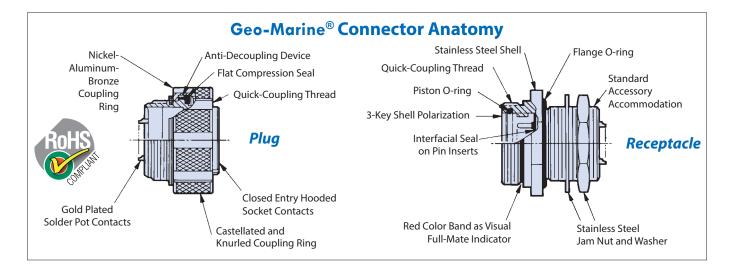


# High-pressure fused-glass underwater / harsh-environmental connectors

Performance Specifications							
Hydrostatic Pressure Rat	ing:		5,000 PSI (fully mated)	5,000 PSI (fully mated)			
Operating Temperature:			-65°C to +125°C				
Durability:			500 Cycles of mate/demate	e			
Insulation Resistance:			1000 Megohms minimum a	at 500 VDC			
		Class H H	lermetic Receptacles				
0	pen-Face Pressure Rating	I		1,000	to 5,000 PSI		
	Hermeticity		Less than 1	1 X 10 ⁻ <sup>6</sup> sccl	He/second @1atmosphere		
		Ci	urrent Rating				
Current	Rating	Envii	ronmental		Hermetic		
Size 22 G	Contact	500 V	DC, 5 amps		500 VDC, 3 amps		
Size 20 G	Contact	500 VE	DC, 7.5 amps		500 VDC, 5 amps		
Size 16 C	Contact	750 VI	DC, 13 amps		750 VDC, 10 amps		
Size 12 C	Contact	750 VE	DC, 23 amps		750 VDC, 17 amps		
		S	ervice Rating				
Country of Circo	Sug	gested Operational V	oltage (Sea Level)		Test Voltage		
Contact Size	AC(RMS	i)	DC		(Sea Level)		
22 GA	400		550		1300 VDC		
20 GA	600	600			1800 VDC		
16 GA	900		1250		2300 VDC		
12 GA	300		450	2300 VDC			

Depth/Pressure Conversion									
Feet	Meters	P.S.I.	Bar	Feet	Meters	P.S.I.	Bar		
1	.3	.4	.0296	1,000	304.8	433.0	29.8543		
10	3.1	4.3	.2965	1,500	457.2	649.5	44.7814		
50	15.2	21.7	1.4962	2,500	762.0	1082.5	74.6357		
100	30.5	43.3	2.9854	5,000	1524.0	2165.0	149.2715		
250	76.2	108.3	7.4670	10,000	3048.0	4330.0	298.5430		
500	152.4	216.5	14.9271	11,547	3519.35	5000.0	344.7379		

Cable/Wire D.C. Resistance								
Co	Copper Conductors at Room Temperature							
AWG	Ohms per 1000 feet	AWG	Ohms per 1000 feet					
28	66.2 Max	20	10.4 Max					
26	41.6 Max	18	6.5 Max					
24	26.2 Max	16	4.1 Max					
22	16.5 Max	14	2.6 Max					
		12	1.6 Max					





## 5000 PSI PRESSURE-RATED Geo-Marine<sup>®</sup> Connectors



High-pressure fused-glass underwater / harsh-environmental connectors





Glenair can design and fabricate overmolded **Geo-Marine**<sup>®</sup> cable assemblies featuring Viton<sup>®</sup> chemical resistant materials terminated and tested to deliver advanced levels of sealing and durability.

Connector Materials and Potting							
ltem	Material	Potting					
Connector Shells	CRS 316 SAE-AMS-QQ-S-763						
Protective Covers	CRS 316 SAE-AMS-QQ-S-763						
Solder Mount Receptacle	CRS 316 SAE-AMS-QQ-S-763						
Plug Coupling Nut	Marine Bronze SAE AMS-4640						
Molding Adapters and Backshells	See individual product pages						
Insulators, Class "E"	Epiall 1908, Diallyl Phthalate or Hysol CP2-4289	Stycast 2651/Catalyst 9					
Insulators, Class "H"	Fused Vitreous Glass						
Contacts, Pin - Class "E"	Leaded Nickel Copper, CA 7021						
Contacts, Pin - Class "H"	Nickel-Iron Alloy 52 - MIL-I-23011, Class 2						
Contacts, Socket	Copper Alloy, CA7021						
Contacts, Socket Hood	CRS, SAE-AMS-QQ-S-763 AISI 305						
O-Rings	Nitrile (Buna-N) Rubber MIL-G-21569						
Interfacial and Peripheral Seals	Flourosilicone Rubber MIL-DTL-25988						





#### Caution

Electrical safety limits must be established by the user. Peak voltages, switching surges, transients, etc., should be used to determine the safety of application.

#### **APPLICATION NOTES**

- All parts will be identified with manufacturer's name and part number, space permitting.
- Glenair 600 series backshell assembly tools are recommended for assembly and installation.
- Electrical ratings are based on connectors only, not terminated to a cable or conductors, with proper cleaning and drying after hydrostatic testing.
- On all length callouts, tolerance is ± .060 unless otherwise specified.
- Metric dimensions appear in parentheses in diagrams and tables, based on 1 inch = 25.4 mm, for reference only. Unless otherwise specified, the following other dimensional tolerances apply:

 $\begin{array}{l} .xx \ = \ \pm \ .03 \ (0.8) \\ .xxx \ = \ \pm \ .015 \ (0.4) \\ Lengths \ = \ \pm \ .060 \ (1.52) \\ Angles \ = \ \pm \ 5^{\circ} \end{array}$ 



## HIGH TEMPERATURE HIGH PRESSURE (HTHP) Glass Sealed Penetrators and Feedthroughs

**G**lass sealed penetrators and feedthroughs provide sealed interconnect solutions for downhole applications such as logging while drilling (LWD) and measurement while drilling (MWD) applying methods such as near-balanced, underbalanced and overbalanced drilling. In these environments, conditions can reach temperatures approaching 300°C while experiencing elevated shock and vibration, downhole fluids / pressures, and limited working room. Glenair HTHP penetrators are typically used where a waterproof seal is needed but connectorized separation from equipment is not. Standard plugs are rated to 10K PSI, mated condition. Standard receptacles are rated to 10K PSI both mated and open-face.



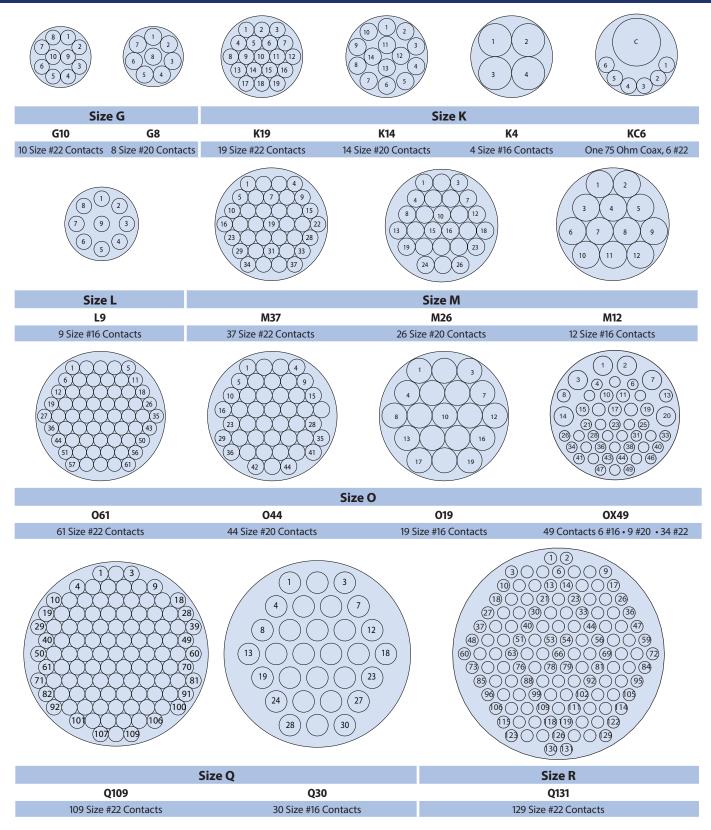
- Available in 7 shell sizes and 17 insert arrangements
- Standard penetrators with hermeticity of <1 X 10<sup>-7</sup> sccHe/ sec @ 1 atmosphere differential and rated to 10,000 PSI
- High-pressure / hightemperature penetrators rated to 25,000 PSI and hermeticity of <1 X 10<sup>-8</sup> sccHe/ sec @ 1 atmosphere differential



## DOWNHOLE HTHP High Pressure/High Temperature Penetrators



Glass sealed insert contact arrangements - Mating face view of pin insert (socket insert IDs are reversed)



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## **HIGH-TEMPERATURE**

# Well-Master<sup>®</sup> 260°

### The Micro-D connector for serious, high-temperature applications

🗨 tandard Micro-D connectors are rated for +125°C. Glenair's MWDM Micro-D can Withstand +150°C continuous operating temperature and can be upgraded to +200°C if assembled with special high temperature epoxies. But oil, gas and geothermal wells can subject electronic instruments to temperatures as high as +260°C. The GHTM Series Micro-D meets the need for a high density, high performance connector capable of handling this temperature. The GHTM features contacts made from a special alloy that resists softening when exposed to temperatures up to  $+260^{\circ}$ C (500° F). Rugged passivated stainless steel shells and hardware, high temperature liquid crystal polymer (LCP) insulators allow these connectors to survive the most demanding environments. Unique angled mounting ears allow the Well-Master<sup>™</sup> 260° to fit in confined spaces.

- +260°C operating temperature
- Angled mounting ears to fit in small diameter instruments
- High reliability twistpin contact system with special high temperature alloy
- .050" Pitch contact spacing for reduced size
- Solder cup, pre-wired or PCB



+260°C Cable Connector

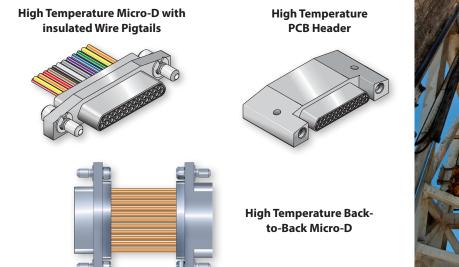


## SERIES GHTM WELL-MASTER 260° Downhole Micro-D Connector



**Reference information / insert arrangements** 

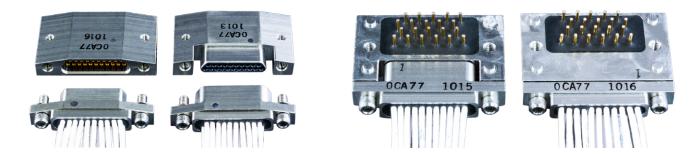
In addition to extreme high temperature tolerance, and demating resistance to vibration and shock, the Glenair Well-Master<sup>™</sup> 260° Micro-D connector features unique shell packaging designed to conform with the cylindrical shape of instrument housings. Special angled mounting ears facilitate incorporation of the connector into available space, and the Micro-D's overall reduced size compared to other rectangular connector solutions allows for more efficient utilization.





GHTM High Temperature Insert Arrangements (Pin Face View)							
	1 2 3 4 5 6 7 8 • • • • • • • • 9 10 11 12 13 14 15		1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 7 8 9 10 11 1 2 13 14 15 16 17 18 19 20 21		1 2 3 4 5 6 7 8 9 10 11 12 13 4 4 7 8 9 10 11 12 13 4 7 8 9 10 12 12 12 12 12 12 12 12 12 12 12 12 12		
9	15		21		25		
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		0 11 12 13 14 15 16 17 18 19		4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 11 22 23 24 25 28 27 28 29 30 31 32 33 34 35 6 6 7 6 7 8 9 10 11 12 13 14 15 16 17 18 6 7 7 8 9 10 11 12 13 14 15 16 17 18 6 7 7 8 9 10 11 12 13 14 15 16 17 18 7 8 9 10 11 12 13 14 15 15 16 15 1		
31		37		51			

Mating face of pin connector. Socket connector contact numbers are reversed.





## SERIES GHTM WELL-MASTER 260° Downhole Micro-D Connector

Insulated wire connector with pin or socket contacts



#### GHTM PRE-WIRED CONNECTORS WITH +260°C MIL SPEC PTFE/POLYIMIDE WIRE



GHTM Well-Master<sup>™</sup> 260° pre-wired Micro-D connectors withstand +260°C continuous operating temperature. These .050" pitch Micro-D connectors are terminated to #24 AWG insulated wire. Nickel-coated copper wire conforms to M22759/87, PTFE/polyimide insulation. Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell. Glass-filled high temperature LCP thermoplastic insulators. 100% hi-pot tested. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +260°C.

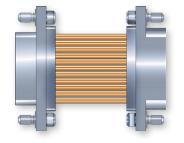
	How To Order								
Sample Part Number		GHTM	-31	S	-4	т	1	-18	В
Series	GHTM Glenair High Temperature Micro								
Shell Size	9, 15, 21, 25, 31, 37, 51								
Contact Type	P - Pin/Plug S - Socket/Receptacle								
Wire Gage (AWG)	<b>4</b> – #24								
Wire Type	T – PTFE/Polyimide Insulated Nickel Coated Copper								
Wire Color	1 – White						-		
Wire Length (Inches)	18 – Wire Length In Inches. "18" Specifies 18 Inches.								
Mounting Hardware	B - Std. Thru-Hole (Ø.089/.095) M - Hex Head Jackscrew S - Slot See Mounting Hardware Table	Head Jackscrew	<b>P</b> -	ntegr	al Jack	post			

	GHTM Mounting Hardware	
B Std. Thru-Hole Mounting .096/.088 (2.43/2.23) Dia.	M and S #2-56 Jackscrews Slot head (S), Hex Head (M)	P Integral Jackpost #2-56
Pin	Pin	Pin
	Constanting of the	O Common O
Socket	Socket	Socket





#### GHTM BACK-TO-BACK CONNECTORS WITH +260°C MIL SPEC PTFE/POLYIMIDE WIRE



GHTM Well-Master® 260° back-to-back Micro-D cable assemblies withstand +260°C continuous operating temperature. These .050" pitch Micro-D connectors are terminated to #24 AWG insulated wire. Nickel-coated copper wire conforms to M22759/87, PTFE/polyimide insulation. Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell. Glass-filled high temperature LCP thermoplastic insulators. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +260°C.

How To Order									
Sample Part Number		GHTM	-31	GS	-6	т	1	-18	В
Series	GHTM Glenair High Temperature Micro-D								
Shell Size	9, 15, 21, 25, 31, 37, 51		_						
GP - Pin Connector Both Ends         GS - Socket Connector Both Ends           Contact Type         GS - Socket Connector Both Ends           CS - Pin Connector to Socket Connector         CS - Pin Connector to Socket Connector									
Wire Gage (AWG)	4 - #24								
Wire Type	T - PTFE/Polyimide Insulated Nickel Coated Copper								
Wire Color	/ire Color 1 - White								
Wire Length (Inches)	18 - Wire length in Inches (2" minimum for 2 rows, 3" minimum for	3 rows)							
Mounting Hardware	B - Std. Thru-Hole M - Hex Head Jackscrew S - Slot Head Jacks (See Mounting Hardware Table, opposite page)	screw P - In	tegral	Jackpo	ost			,	

#### **GHTM RIGHT ANGLE PRINTED CIRCUIT BOARD HEADERS**



GHTM Well-Master® 260° right angle PCB Micro-D connectors withstand +260°C continuous operating temperature. These .050" pitch Micro-D connectors have .020 inch diameter (0.51mm)gold-plated PC terminals. Terminal spacing is .100 inch by .075 inch (2.54 by 1.91mm). Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell with integral jackpost. Glass-filled high temperature LCP thermoplastic insulators to withstand soldering heat. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +260°C.

How To Order							
Sample Part Number		GHTM	-25	Ρ	RA	Ρ	-110
Series	GHTM Glenair High Temperature Micro-D						
Shell Size	9, 15, 21, 25, 31, 37, 51		_				
Gender	P = Pin/Plug S = Socket/Receptacle						
Termination Type	RA = Right Angle Board Mount				-		
Mounting Hardware P - Integral Jackpost; See Mounting Hardware Table opposite page							
Terminal Length	All lengths ±.015 (.38) .080, .110, .125, .140, .150, .175, .190, .205						

# **Hydrostatic Test Lab**

### GLENDALE, CALIFORNIA

Special behind-the-scenes tour of Glenair's hydrostatic test lab for high-pressure electrical and fiber optic interconnects



ENDALE

as customer

subassemblies

LARGE PRESSURE VESSELS: Built to accommodate complete cable assemblies, mated connectors, and customersupplied subassemblies

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**CONTROL ROOM:** The modular consoles in the control room provide for up to 8 pressure circuits, operating in Manual mode or Automated. Each circuit is capable of a maximum of 16.5K psi. Monitors display: Automated Test Profiles, Data Acquisition, remote viewing of Test rooms and more. System is network connected for access to Profiles and distribution of test reports. **3. Hydrostatic** test lab control 4. Production room connector 5. Small staging connector pressure test bunker SeaKing<sup>™</sup> and SuperG55<sup>™</sup> QUALIFICATION TESTING: Both Glenair Series 70 SeaKing and SuperG55 rugged dry-mate subsea connectors have been tested and qualified to their 10K psi pressure rating—open-face and mated—in Glenair's state-of-the-art hydrostatic test lab. Additional testing included mating cycles, salt spray, and electrical continuity.



Glenair Hydrostatic Test Lab Technical Specifications and Pressure Test Standards				
Pressure test profiles	Automated or manual			
Maximum test pressure	16.5K psi			
Data acquisition types	Pressure, time, temperature, and electrical performance			
Performance monitoring under pressure	I/R, continuity, insertion loss, and backreflection (optical)			
Industry profiles	All major oil & gas standards			
Custom profiles	Yes, including customer-supplied subassemblies			
Capacity (large pressure vessels)	Working volume = 12" diameter x 72" depth; Test specimen weight up to 1500 lbs.			

Flenair.



## **MISSION-CRITICAL** ERCONNECT JTIONS

Glenair, Inc.

1211 Air Way • Glendale, California • 91201-2497 Telephone: 818-247-6000 • Fax: 818-500-9912 • sales@glenair.com www.glenair.com

Printed in U.S.A.

<b>Glenair East</b> 20 Sterling Drive Wallingford, CT 06492	Telephone: 203-741-1115 Facsimile: 203-741-0053 sales@glenair.com
<b>Glenair Microway Systems</b>	Telephone:
7000 North Lawndale Avenue	847-679-8833
Lincolnwood, IL	Facsimile:
60712	847-679-8849
<b>Glenair GmbH</b> Schaberweg 28 61348 Bad Homburg Germany	Telephone: 06172 / 68 16 0 Facsimile: 06172 / 68 16 90 info@glenair.de
<b>Glenair Italia S.p.A.</b>	Telephone:
Via Del Lavoro, 7	+39-051-782811
40057 Quarto Inferiore –	Facsimile:
Granarolo dell'Emilia	+39-051-782259
Bologna, Italy	info@glenair.it
<b>Glenair Korea</b>	Telephone:
6-21TaPSII-ro 58beon-gil	+82-07-5067-2437
Giheung-gu, Yongin-si	Facsimile:
Gyeonggi-do	+82-504-375-4549
Republic of Korea	sales@glenair.kr

**Glenair UK Ltd** 40 Lower Oakham Way **Oakham Business Park** Mansfield, Notts NG18 5BY England

**Telephone:** +44-1623-638100 Facsimile: +44-1623-638111 sales@glenair.co.uk

**Glenair Nordic AB** Gustav III : S Boulevard 42 SE-169 27 Solna Sweden

**Telephone:** +46-8-50550000 sales@glenair.se

#### **Glenair Iberica**

C/LaVega, 16 45612 Velada Spain

Telephone: +34-925-89-29-88 Facsimile: +34-925-89-29-87

#### **Glenair France SARL**

7, Avenue Parmentier Immeuble Central Parc #2 31200 Toulouse France

sales@glenair.es **Telephone:** +33-5-34-40-97-40

Facsimile: +33-5-61-47-86-10 sales@glenair.fr

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