

Underwater Connectors

Topside and Subsea Connectors / PBOF Assemblies for High-Pressure Oil & Gas Industry Interconnect Applications



- High-pressure, 10K psi open-face subsea
- Ruggedized serial and high-speed electrical connectors
- Power and fiber optic interconnects
- **■** Hazardous zone ATEx explosion-proof
- Ultra high-density solutions for ROVs

OIL & GAS INDUSTRY INTERCONNECT **SOLUTIONS**









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







Micro-PSI



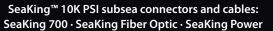






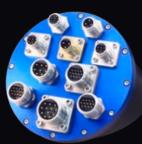
DEEP WATER SUBSEA, HIGH-PRESSURE 10K PSI / 700 BAR / 7000M CONNECTORS







SeaKing Junior high-density small form-factor subsea connector



SuperG55™ dry-mate 10K PSI subsea electrical connectors

PIPELINE INSPECTION / **ULTRAMINIATURE SUBSEA**



Micro PSI microminiature high-pressure connectors and cables

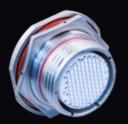


AguaMouse™ 3500 PSI miniature connectors



Geo-Marine® 5000 PSI connectors and overmolded cables

DOWNHOLE HIGH-TEMPERATURE / HIGH PRESSURE CONNECTORS



ThermaRex high-temperature

power and signal connector



High Temperature/High Pressure (HTHP) penetrators and feedthroughs



Micro-D connectors

TOPSIDE OR SHIPBOARD CONNECTORS



ITS-Ex ATEx-qualified explosive zone connectors



overmolded cable assemblies

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Dry-mate Underwater/Subsea Connector Selection Guide

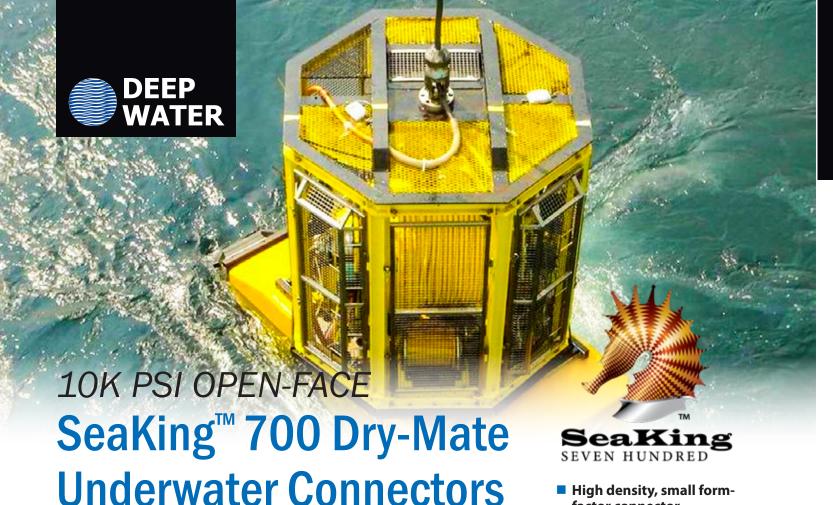
SIZE	CONNECTOR SERIES	RUGGEDNESS LEVEL	OPEN-FACE SEALING	DEPTH RATING
Large	SeaKing POWER	3 Mission-Critical	Yes	10K PSI (700 Bar)
	SeaKing Seven Hundred	3 Mission-Critical	Yes	10K PSI (700 Bar)
Standard		2 High-Reliability	Yes	10K PSI (700 Bar)
	Geo-Marine°	2 High-Reliability	No	5K PSI (450 Bar)
Miniature	SeaKing Junior	2 High-Reliability	No	10K PSI (700 Bar)
Mini		1 General Duty Harsh-Environment	No	3.5KPSI (240 Bar)
Micro	MICRO-PSI ()	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 / 700 Bar / 7000m open-face or mated, dual O-ring equipped, high-density, high-voltage, fiber optic and hybrid electrical/optical subsea connectors

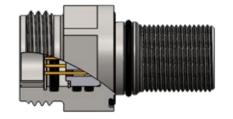
eaKing is an innovative underwater connector series that eliminates a broad range of mechanical design weaknesses found in many of today's high-pressure subsea connector families. From its double O-ring seals and retractable engaging nut, to its multi-keyed mating interface, the SeaKing underwater connector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

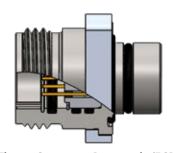
Ideally suited for deep water offshore oil & gas, military/defense, oceanographic research, and other harsh-environment subsea applications, the dry-mate connector series is built for optimal durability and reliability. Tested to 15,000 PSI (open face and mated), and equipped with integrated dual O-ring seals, marine bronze coupling nuts, corrosionresistant 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.

- 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)



SERIES 700 10K PSI / 700 BAR / 7000 M

SeaKingTM High-Pressure Underwater

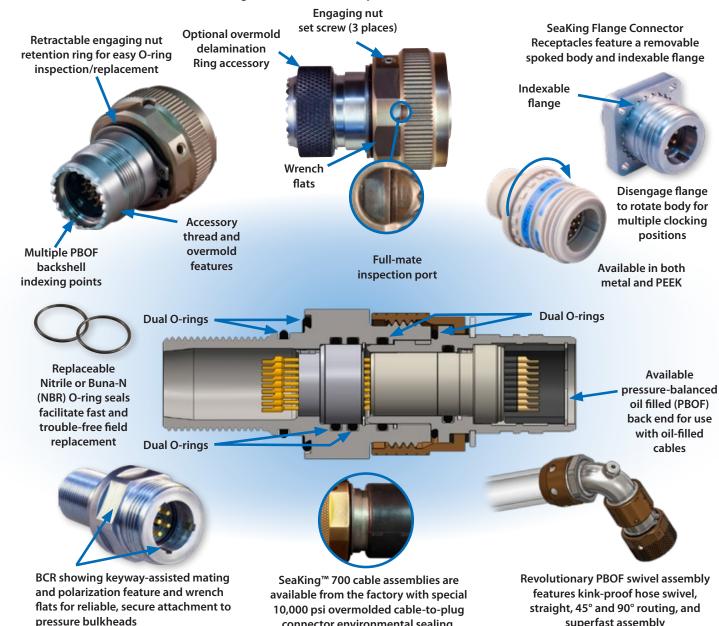
Glenair. **Connectors, Cables, and PBOF Assemblies**

Key mechanical and environmental features

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

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.



connector environmental sealing.

superfast assembly



SERIES 700 10K PSI / 700 BAR / 7000 M

Glenair. 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		
Product Series	700 = SeaKing™							
Shell Style	001 = cable connector plug (CCP)							
Shell Size-Insert Arrangement	(see sales drawing	g for de	tails)					
Shell Material	Z1 = 316 stainless TC = titanium	Z1 = 316 stainless steel TC = titanium						
Contact Style	S = socket							
Polarization	A, B, C, N = normal (see sales drawing for details)							

	SeaKing - How To Order							
Sample Part Nu	mber	700	-006	-019	- Z1	P	N	
Product Series	700 =	700 = SeaKing [™]						
Shell Style	conne (FCR) 026 =	026 = GRE flange connector receptacle						
Shell Size-Insert Arrangement	(see sa	(see sales drawing for de						
Shell Material	Z1 = 316 stainless steel TC = titanium							
Contact Style	P = Pin							
Polarization	A, B, C, N = normal (see sales drawing for details				ls)			



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	P	N		
Product Series	700 = SeaKing™							
Shell Style	connector rece (BCR) 027 = GRE bulk	027 = GRE bulkhead connector receptacle						
Shell Size-Insert Arrangement	(see sales draw	ing for c	details)					
Shell Material	Z1 = 316 stainless steel TC = titanium							
Contact Style	P = pin							
Polarization	A, B, C, N = normal (see sales drawing for details)					ls)		

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

SeaKing - How To Order								
Sample Part Number	700-010	-M12	- Z 1	P	N	P	N	-2
Product Series	700-010 = SeaKing™ bulkhead connector feed-thru (BCF)							
Shell Size- Insert Arrangement	(see sales drawii details)	ng for						
Shell Material	Z1 = 316 stainle TC = titanium	Z1 = 316 stainless steel TC = titanium						
Side A, Contact Type	P = pin $S = so$	ocket						
Side A, Polarization	A, B, C, N = norr (see polarization		ogs. 6-	7)				
Side B, Contact Type	P = pin S = socket							
Side B, Polarization	A, B, C, N = normal (see sales drawing for details)							
Bulkhead Thickness	1 = 1.00 - 1.50 2 = 1.50 - 2.00 3 = 2.00 - 2.500 4 = 2.50 - 3.00 5 = 3.00 - 3.50 6 = 3.50 - 4.00							



SERIES 700 10K PSI / 700 BAR / 7000 M

SeaKing™ High-Pressure Underwater **Connectors, Cables, and PBOF Assemblies**

700 Series, non-metallic PEEK connectors

700-201 CABLE CONNECTOR PLUG (CCP), PEEK



SeaKing PEEK - How To Order							
nber	700	-201	-M12	-K	S	N	
700 = SeaKing™	_						
201 = non-metallic PEEK cable connector plug (CCP)							
(see sales drawing for details)							
K = glass-reinforced PEEK							
S = socket							
Polarization A, B, C, N = normal (see sales drawing for details)						•	
	700 = SeaKing [™] 201 = non-metallic leable connector plu (see sales drawing for K = glass-reinforced S = socket	700 = SeaKing™ 201 = non-metallic PEEK cable connector plug (CCP) (see sales drawing for details) K = glass-reinforced PEEK S = socket	nber 700 -201 700 = SeaKing™ 201 = non-metallic PEEK cable connector plug (CCP) (see sales drawing for details) K = glass-reinforced PEEK S = socket	nber 700 -201 -M12 700 = SeaKing™ 201 = non-metallic PEEK cable connector plug (CCP) (see sales drawing for details) K = glass-reinforced PEEK S = socket	700 -201 -M12 -K 700 = SeaKing™ 201 = non-metallic PEEK cable connector plug (CCP) (see sales drawing for details) K = glass-reinforced PEEK S = socket	700 -201 -M12 -K S 700 = SeaKing™ 201 = non-metallic PEEK cable connector plug (CCP) (see sales drawing for details) K = glass-reinforced PEEK S = socket	

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 Num	ber	700	-206	-E4	-K	P	N
Product Series	700 = SeaKing™						
Shell Style	206 = non-metallic Glass Hermetic Sea 226 = non-metallic Glass Reinforced Ep	l Insert (GTMS) PEEK FCR,					
Shell Size-Insert Arrangement	(see sales drawing	(see sales drawing for details)					
Shell Material	K = 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 smaller shell sizes. Contact factory for details.

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



	SeaK	ing PEEK - How To	Order				
Sample Part Nur	nber	700	-207	-E4	-K	P	N
Product Series	700 = 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 sales drawing	g for details)		,			
Shell Material	K = 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 smaller shell sizes. Contact factory for details.



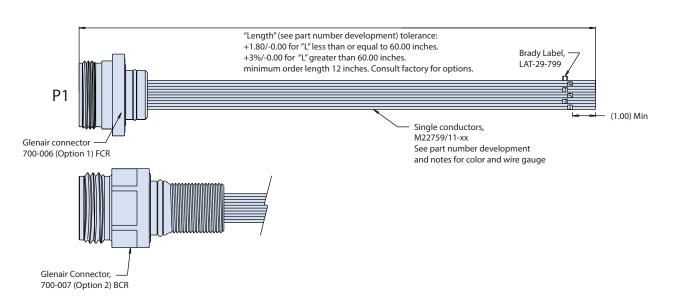
SERIES 700 10K PSI / 700 BAR / 7000 M

SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies

Single-ended connector receptacle pigtail assembly

7071-0012 FLANGE OR BULKHEAD CONNECTOR RECEPTACLE PIGTAIL ASSEMBLY

SeaKing - How To Order								
Sample Part Nur	nber	7071-0012	-1	M12	- Z 1	-12	A	N
Product Series	7071-0012 = SeaKing [™]							
Receptacle Style	1 = 700-006 (GTMS FCR) 3 = 700-026 (GRE FCR)	2 = 700-007 (GTMS BCR) 4 = 700-027 (GRE BCR)						
Insert Arrangement	(see sales drawing for details)			-				
Material/Finish	Z1 = 316 stainless steel TC = titanium							
Cable Length	In inches					-		
Wire Coloring	A = all white B = 10 color repeating; IAW MI	L-STD-681					•	
Polarization	A, B, C, N = normal (see sales drawing for details)						,	



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

NOTES

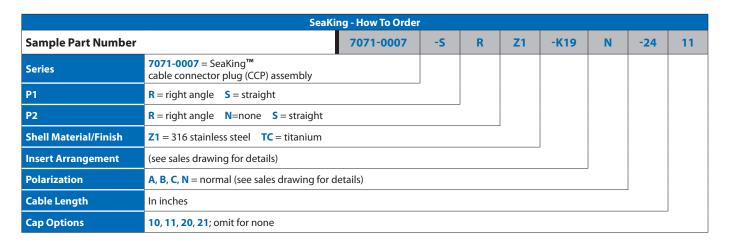
- 100% electrically tested for shorts, dielectric withstanding voltage (500Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell at 500Vdc/200 megohms min. (IAW-STD-202, Method 302)
- Quantity and gauge of conductors determined by insert arrangement. All cavities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



SERIES 700 10K PSI / 700 BAR / 7000 M

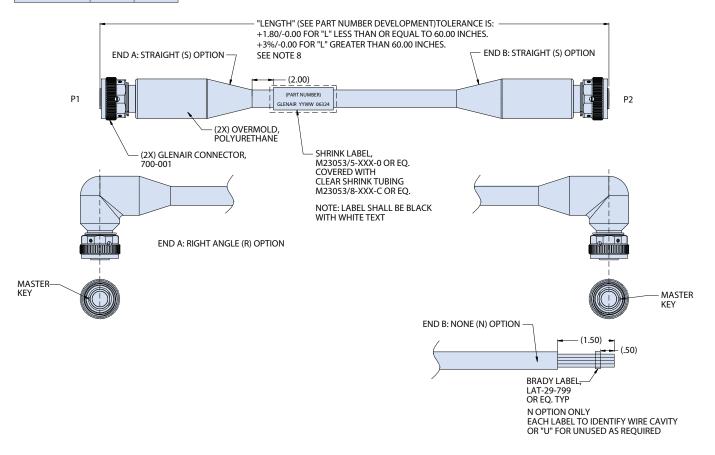
SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies

Single ended or back-to-back, overmolded cable



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

Cap Options				
Sym	Description			
10	Protective cap, no lanyard			
11	Protective cap, with lanyard			
20	Pressure cap, no lanyard			
21	Pressure cap, with lanyard			





SERIES 700 10K PSI / 700 BAR / 7000 M

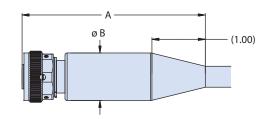
SeaKing™ High-Pressure Underwater **Connectors, Cables, and PBOF Assemblies**

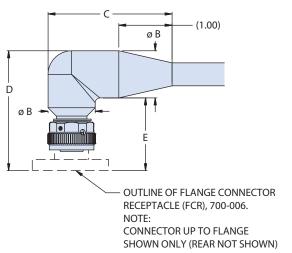
Single ended or back-to-back, overmolded cable

SIZE	Α	В	C	D	E
Е	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

- 1. 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.
- Max pressure rating 10000 psi.
- For connector dimensions, materials, finishes, refer to drawing 700-001.
- For insert arrangements refer to drawing 709-099 contact manufacturer for builds with combo insert arrangements.
- Double ended cordsets are wired one to one (ex. pin 1 to pin 1, 2 to 2 etc).
- 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.
- 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.







SERIES 700 10K PSI / 700 BAR / 7000 M

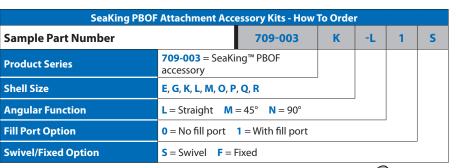
SeaKing™ High-Pressure Underwater Glenair. **Connectors, Cables, and PBOF Assemblies**

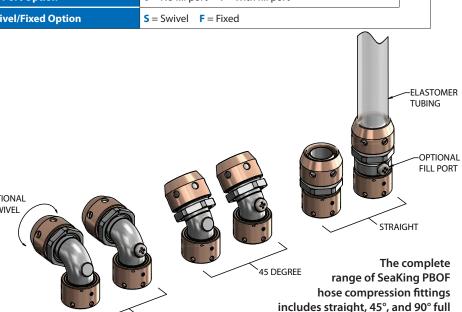
PBOF assembly fittings and accessories

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[™] 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

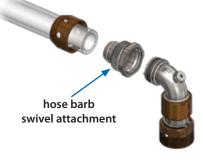




90 DEGREE



Interlocking teeth on SeaKing™ plug connectors interface with corresponding teeth on the **PBOF** swivel hose attachment to facilitate easy indexing and routing of hose assemblies



Revolutionary swivel hose barb compression attachment eliminates twisting and damage in **PBOF** assemblies



Threaded PBOF compression nut and connector coupling nut (with additional safety set screw) provide for fast and easy assembly and prevent leaks and assembly decoupling

radius profile versions; with and without

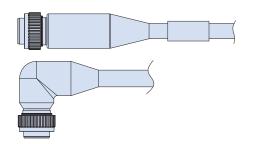
integrated oil fill ports

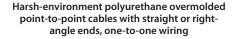


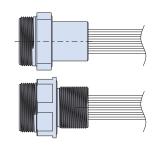
High-reliability, dry-mate, harsh-environment connectors and cables for intelligent inline inspection PIG applications

■ igh-density Series 701 SeaKing Junior connectors are the perfect choice for harshenvironment oil & gas industry equipment. All designs are equipped with piston seal nitrile O-rings to withstand exposure to corrosive chemicals and high-temperature environments. These 10,000 psi pressure rated (mated condition) connectors feature high-density crimp-contact or solder cup inserts, and are significantly smaller than our larger form-factor series 700 SeaKing interconnects. Gold-plated 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.

SEAKING™ JUNIOR OVERMOLDED CABLES AND PIGTAIL ASSEMBLIES







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

- 10,000 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



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

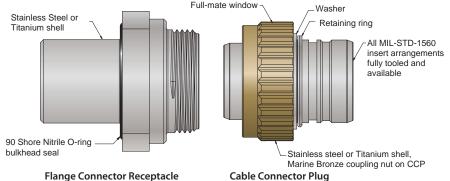


SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



10K psi high-density overmolded cable connectors

SERIES 701 SEAKING™ JUNIOR MECHANICAL FEATURES AND CONFIGURATIONS



Series 701 Polarization

Receptacle



Series 701-016 Flange Connector Receptacle (FCR)

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.

10,000 psi

These connectors withstand up to 10,000 PSI hydrostatic pressure in a mated condition.



Series 701-017 **Bulkhead Connector** Receptacle (BCR)

SEAKING™ 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					
1	1800	600.0	484.5					
II	2300	766.7	1084.2					

Series 701-011

Plug (CCP)

Cable Connector

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					

Position Normal (N)

> Α В C

0-24 <i>F</i>	AWG		
2-28 <i>F</i>	AWG		
		1	
Rota	ey ition		She
Α°	В°		CCP
150°	210°		Con
			Insu
75°	210°		Reta
		1	1

Ī	Ke Rota	She	
	Α°	В°	CCP
Ī	150°	210°	Con
			Insu
	75°	210°	Reta
Ī	95°	230°	hard
	75	250	Inte
	140°	275°	only

Performance Specifications						
Insulation Resistance	5000 megohms at 500 VDC					
Operating Temperature	-65° C to +175° C					
Hydrostatic Pressure	10,000 PSI mated condition, tested per ISO 13628-6					
Durability	300 mating cycles					

Material and 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®, 90 shore Viton® O-rings offer wider temperature range					



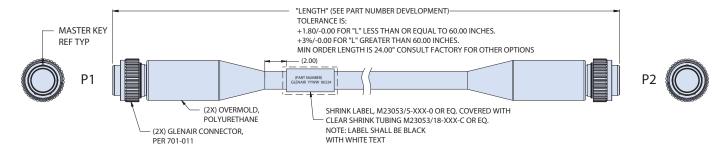
SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



Overmolded cables and pigtail assemblies

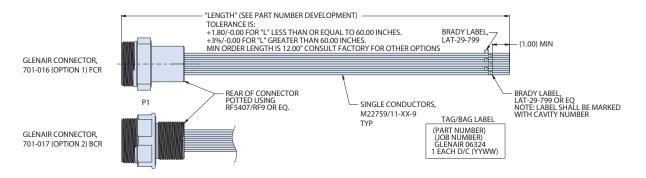
SEAKING™ JUNIOR POINT-TO-POINT OVERMOLDED CABLE

SeaKing Junior - How To Order								
Sample Part Number		7071-0067	9-35	Z1	S	N	36	
Series	7071-0067 = SeaKing Junior Cable Assembly	7071-0067 = SeaKing Junior Cable Assembly						
Insert Arrangement	See contact arrangement table pages 14-19							
Material/Finish	Z1 = Stainless Steel Body and Marine Bronze Coupling N TC = Titanium	ut						
Contact Style	S = Socket				_			
Polarization	N = Normal, A, B, C (see Polarization Table, page 14)					_		
Cable Length	Length = in inches; ie 36 = 36 inches						-	



SEAKING™ JUNIOR SINGLE-ENDED RECEPTACLE ASSEMBLY

SeaKing Junior - How To Order									
Sample Part Number		7071-0068	1	9-35	Z 1	P	N	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 contact arrangement table pages 14-19								
Material/Finish	Z1 = Stainless Steel Body and Marine Bronze Coupling Nut TC = Titanium								
Contact Style	P = Pin								
Polarization	N = Normal, A, B, C (see Polarization Table, page 14)						-		
Cable Length	Length = in inches; ie 36 = 36 inches							-	





Insert Arrangement

No. of Contacts

Contact Size

Service Rating

SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



Insert arrangements

	_	_	_	_	.AYOUTS)		
Contact Legend	0 0	(c A ⊕	$ \begin{pmatrix} B & A \\ \Phi & \Phi \end{pmatrix} $	⊕ ^D ^A ⊖	$\stackrel{E}{\ominus} \stackrel{A}{\ominus}$	9 0 0 1 0 2	E_ F_
#22D ● #16 ⊕		ВӨ	$(\oplus $	(ec ee)	$(\stackrel{D}{\ominus} \ominus \stackrel{D}{\ominus} \ominus \stackrel{B}{\ominus})$	8 0 13 0 0 12 0 4 7 0 0 5	(E⊕ F∈
#20 ⊖ #12 ⊖					00		
Insert Arrangement	9-35	9-98	11-2	11-4	11-5	11-35	11-9
No. of Contacts Contact Size	6 #22D	3 #20	2 #16	4 #20	5 #20	13 #22D	#2
Service Rating	#22D M	#20 	#10 I	#20 	#20 	#22D	#2
•							
Contact Legend	FO A	\bigoplus^{A}	\ Gen (e / ½	⊕ ^A ⊕ ^B	0000	
#22D ● #16 ⊕		(⁰⊕ €	\bigoplus^{B} $\left(\begin{smallmatrix}F_{m{\Theta}}&m{\Theta}_{F}\end{smallmatrix}\right)$	$\begin{pmatrix} \mathbf{G} \\ \mathbf{\Theta} \end{pmatrix}$	$\stackrel{K}{\ominus} \ominus^{J} \ominus^{C}$	210 0	E A
#20 ⊖ #12 ਦ	D⊖ ⊖c	\bigoplus_{c}	E O	Θc/ \ ε			(°⊕ €
				· ·			Day (
Insert Arrangement	11-99	13-4	13-8	3	13-98	13-35	15-5
No. of Contacts Contact Size	7 #20	4 #16	8 #20)	10 #20	22 #22D	5 #16
Service Rating	#20 	#10 	#20	,	#20 	#22D	#IO
J							
Contact Legend	LO A	(6	M A B O C O O O O O O O O O O O O O O O O O	0 0 0 0	E	A	\bigoplus^{A}
#22D ● #16 ⊕		\ \rangle \ \rangle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A B B C C B C C B C C C C C C C C C C C			• \	∕ ⊕ ູ€
#20 ⊖ #12 ⊖		(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B				■ (Δ"
	GO OF OF	_He	Θ _G Θ ^F	0000			F
						c	⊕ ⊕
Insert Arrangement	15-18		15-19	15-35	17-6	5	17-8
No. of Contacts	18		19	37	6		8
Contact Size	#20 I		#20	#22D M	#12	<u>)</u>	#16 II
Service Rating	ı		ı	IVI	Į		11
Contact Legend	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		6 6 6		J	/6	TO OA OB
#22D ● #16 ⊕	/ \(\theta \) \(\theta \)	Θ ^c			H H H B	/R⊖	
#20 ⊖ #12 •					Φ /	P⊖ de	9 ¹ ⊖ " ⊖
		⊕ _E /			⊕ ⊕ ⊕ ^L ⊕ ^C	\vert_p	
	KO JO OH	'/	90 0 0 0 0		F _A A ^D /	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
					\bigoplus_{E}		k⊖ ⊖ _J ⊖ _H
Insert Arrangement No. of Contacts	17-26		17-35		19-11		19-32
Contact Size	26 #20		55 #22D		11 #16		32 #20
Service Rating	I		M		II		1
-	_						
Contact Legend	10 17 6 34 43	58	10 17 625 35 44 52		J_{Ω} Ω^{A}		\bigoplus^{L} \bigoplus^{A}
#22D ● #16 ⊕		D 64	1 0 0 0 0 0	0 65 H		\	M
#20 ⊖ #12 -		0 0 0 0 0 0 0 0	20 0 0 0 0 0		к	B\ / S	; ⊕ _N
			3 0 0 0 0 0	G G			^R ⊕ ⊕ ^P

#22D

#12

19-35

#22D

21-16

#16



Service Rating

SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



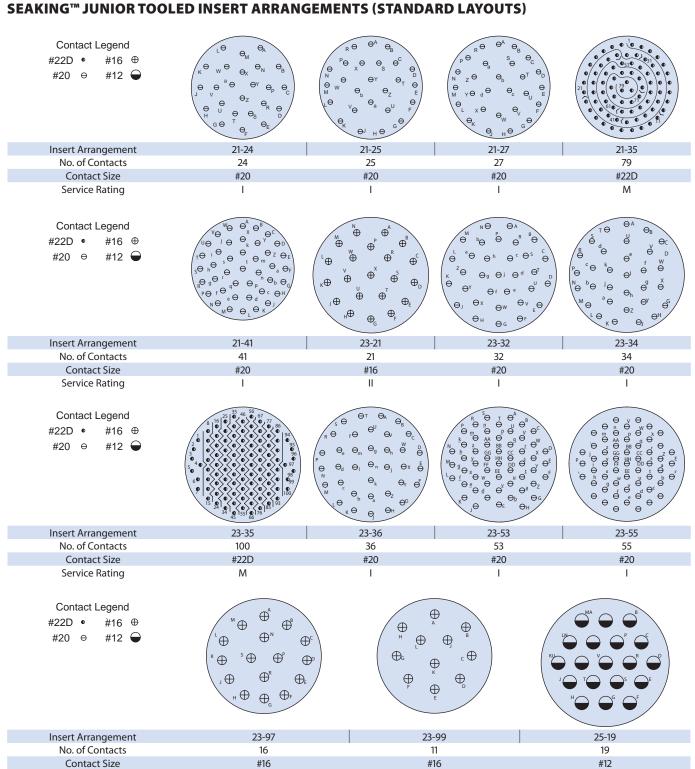
Insert arrangements



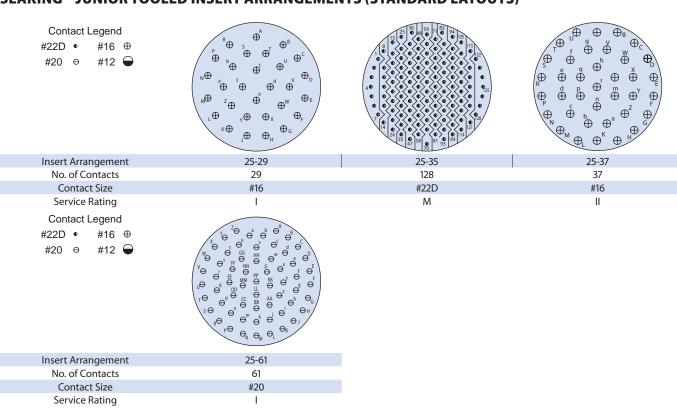
SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



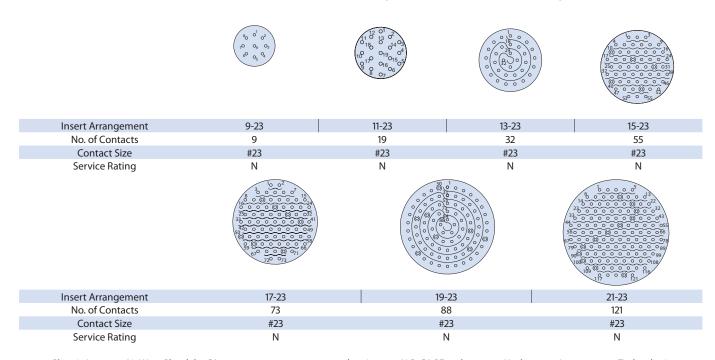
Insert arrangements



SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (STANDARD LAYOUTS)



SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)





SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**



Insert arrangements

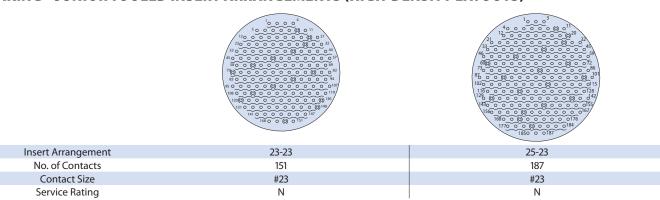
SeaKing

SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**

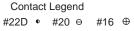


Insert arrangements

SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)



SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (COMBO LAYOUTS)









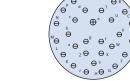


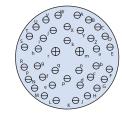


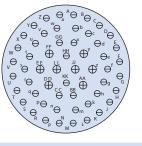
							~ .	
Insert Arrangement	15-15		15-97		17-99		19-28	
No. of Contacts and Size	1X #16	14X #20	4X #16	8X #20	2X #16	21X #20	2X #16	26X #20
Service Rating	1		1			I	l l	

Contact Legend #22D ● #20 ⊖

#12 • #10 •







Insert Arrangement	19)-30	21	-39	2.5	5-4
No. of Contacts and Size	1X #16	29X #20	2X #16	37X #20	8X #16	48X #20
Service Rating		1		1		1

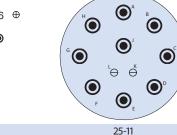
Contact Legend #22D • #20 ⊖

Insert Arrangement

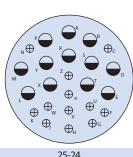
No. of Contacts and Size

Service Rating

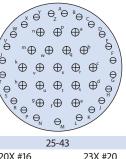
#12 **(a)** #10 **(b)**



9X #10



12X #16



N	⊕ _M L
25	5-43
20X #16	23X #20
	1

SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)

Contact Legend #22D • #16 **⊕**

#12









Shell Size - Insert Arrangement No. of Contacts

1x #8

1x #8

1x #8 38x #22D

Contact Legend #16 ⊕

#12

2x #12



Shell Size - Insert Arrangement No. of Contacts

17-22 2x #8

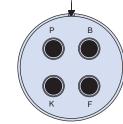
17-60 2x #8

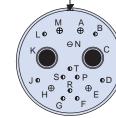
8x #22

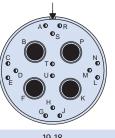
2x #8

Contact Legend

#16 ⊕ #12







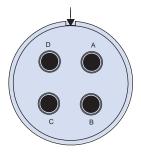
Shell Size - Insert Arrangement No. of Contacts

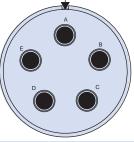
1x #20 10x #22D 4x #16

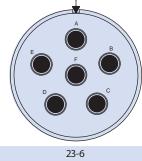
14x #22D 4x #8

Contact Legend #16 ⊕

#12







Shell Size - Insert Arrangement No. of Contacts and Size

21-75

23-5

6x #8

2x #20

12X #12

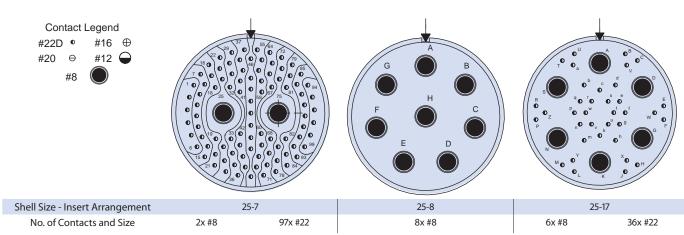


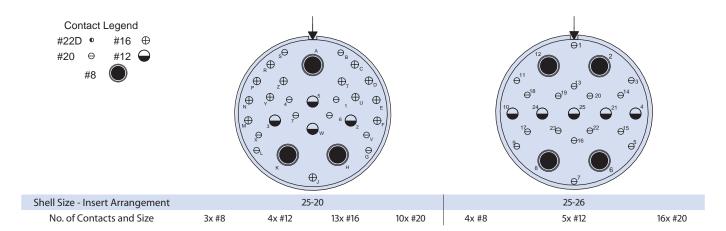
SERIES 701 SeaKing™ Junior **Harsh-Environment Dry-Mate Connectors**

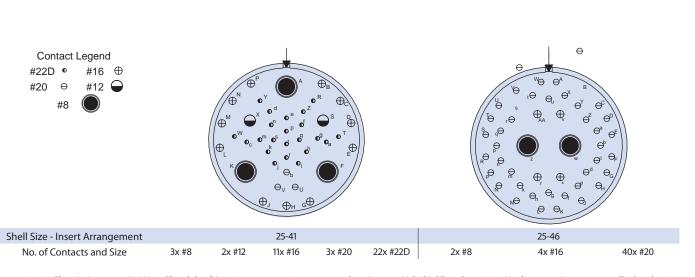


Insert arrangements

SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)









10K PSI open-face pressure rated fiber optic connectors, cables and jumpers, plus ruggedized transceivers and media converters



ata-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</p> singlemode



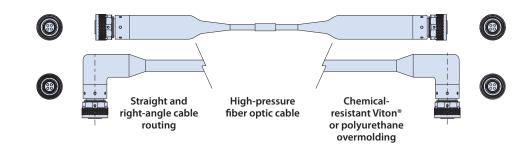
DEEP WATER SeaKing™ Fiber Optic



10K PSI open-face pressure-rated fiber optic connectors, cables, transceivers, and media converters

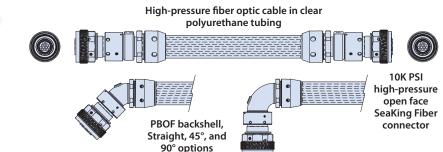
ENVIRONMENTAL OVERMOLDED FIBER OPTIC JUMPERS





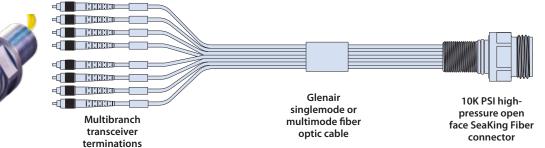
PRESSURE-BALANCED OIL-FILLED (PBOF) HIGH-PRESSURE FIBER OPTIC ASSEMBLIES





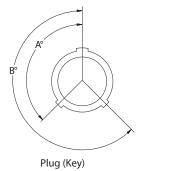
SEAKING™ BCR OR FCR TO COMMERCIAL FIBER OPTIC PIGTAIL ASSEMBLY FOR I/O-TO-BOARD MODULE

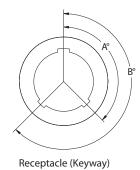




KEY AND KEYWAY POSITONS

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





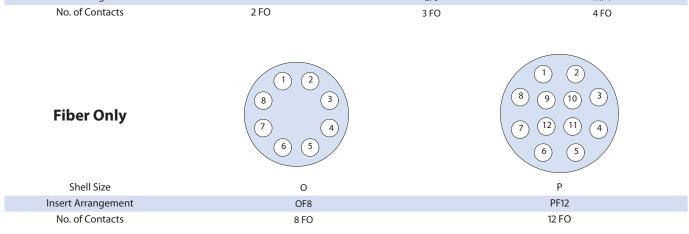


DEEP WATER SeaKing™ Fiber Optic

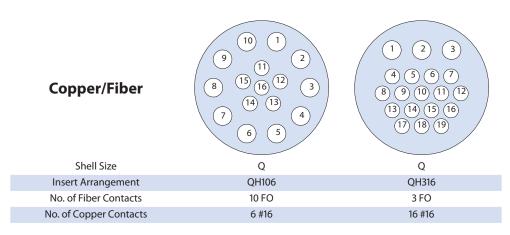


Fiber optic insert arrangements

Fiber Only	1 2	3 2	(1) (2) (4) (3)
Shell Size	K	L	M
Insert Arrangement	KF2	LF3	MF4
No of Company	2.50	2.50	



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



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

All contact arrangements are rated for 600 volts.

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

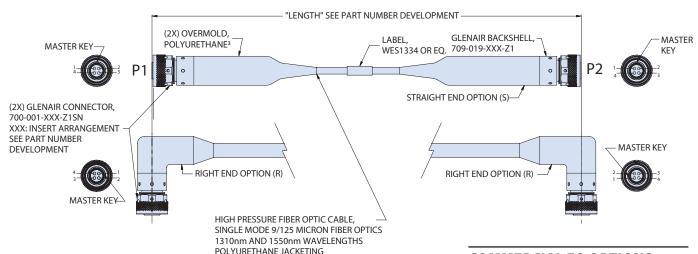


DEEP WATER SeaKing™ Fiber Optic



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

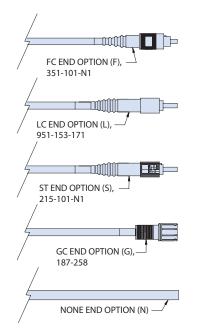
SeaKing Fiber - How To Order									
Sample Part Number	•	7071-0037	-C	С	Z 1	-0F8	N	-24	C
Basic Number	7071-0037								
End 1 Option	C = CCP	R = right angle CCP							
End 2 Option	C = CCP F = FC leads S = ST leads	R = right angle CCP L = LC leads G = GC Leads	N = non	e					
Shell Material	TC = titanium	TC = titanium Z1 = 316 stainless steel							
Insert Arrangement	See page 24; insert body material 316 SST								
Polarization	N = normal, A, B, C; see page 23								
Length	In inches								
Pressure Cap Option	C = pressure cap	, same size and material w	vill be prov	vided (7	709-001); omit f	or non	e	



NOTES

- 1. Optical performance:
- Insertion loss shall be <1.0dB when measured @ 1310nm wavelength. 2. Molding process for high pressure applications shall be used for
- polyurethane overmolds. 3. Insert arrangement shown is for reference only. See page 24 for SeaKing
- fiber optic insert arrangements. 4. See drawing 700-001 for connector dimensions, materials, and finishes. See PBOF assembly fittings, part number 709-003 for more information.
- 5. Wiring for each arrangement is one to one. Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
- 6. Cables over 240" (20ft) shall be shipped on a reel.
- 7. Kit GBS1000-00033 shall be used for inspection/cleaning.
- 8. Recommended SeaKing terminus cleaning tool: GCLT-H160.
- 9. Fiber optic terminus: 1.58 mm ferrule id, single O-ring.
- 10. 10Kpsi open-face and mated

COMMERCIAL FO OPTIONS



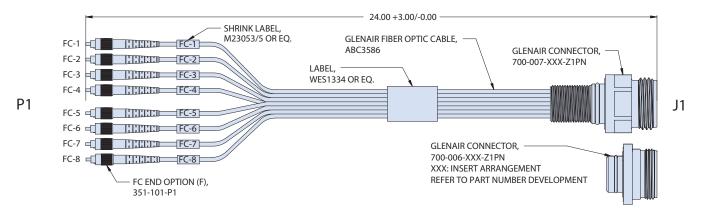


DEEP WATER SeaKing™ Fiber Optic



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

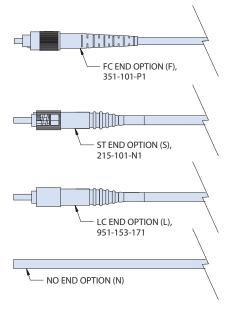
SeaKing Fiber - How To Order									
Sample Part Number		7071-0038	-B	F	Z1	-0F8	N	-24	C
Basic Number	7071-0038								
End 1 Option	$\mathbf{B} = \mathbf{BCR} \mathbf{F} = \mathbf{FCR}$	B = BCR F = FCR							
End 2 Option	F = FC leads L = LC leads	5 5 10005							
Shell Material	TC = titanium	TC = titanium Z1 = 316 stainless steel							
Insert Arrangement	See page 24; insert body material 316 SST								
Polarization	N = normal, A , B , C ; see page 23								
Length	In inches								
Pressure Cap Option	C = pressure cap, s	ame size and material will I	oe prov	ided (7	09-002); omit f	or non	e	



NOTES

- Optical performance:
 - insertion loss shall be <1.0dB when measured @ 1310nm wavelength.
- 2. Insert arrangement shown is for reference only. See SeaKing fiber optic insert arrangements on page 24.
- See drawing 700-001 for connector dimensions, materials, and finishes. See PBOF assembly fittings, 709-003, for more information.
- 4. Wiring for each arrangement is one to one. Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
- 5. Kit GBS1000-00033 shall be used for inspection/cleaning.
- Recommended seaking cleaning tool: GCLT-H160.
- 7. Fiber optic terminus: 1.58 mm ferrule id, single O-ring.

COMMERCIAL FO OPTIONS



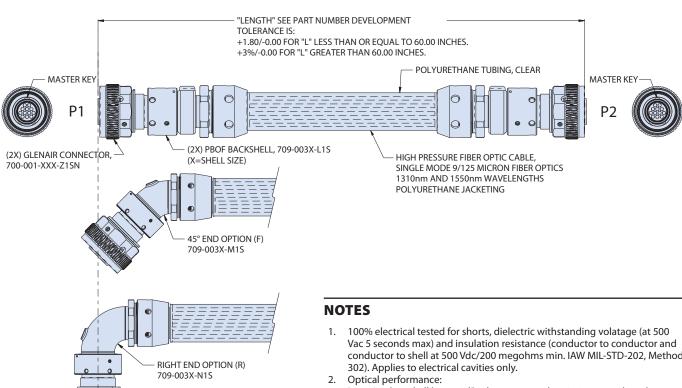


DEEP WATER SeaKing™ Fiber Optic



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

SeaKing Fiber - How To Order								
Sample Part Number		707	1-0049	-S	S	MF4	-36	N
Basic Number	7071-0049							
Backshell End Option (P1)	S = straight	R = right	F = 45°					
Backshell End Option (P1)	S = straight	R = right	F = 45°					
Insert Arrangement	See page 24; Insert body material 316 SST							
Cable Length	In inches							
Polarization	N = normal; see page 23							



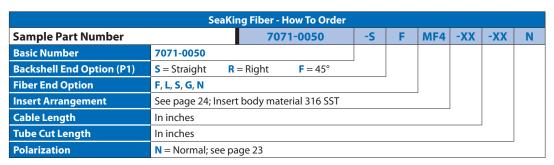
- conductor to shell at 500 Vdc/200 megohms min. IAW MIL-STD-202, Method
- Insertion loss shall be <1.0dB when measured @1310nm wavelength
- Molding process for high pressure applications shall be used for polyurethane overmolds
- Insert arrangement shown is for reference only. See SeaKing fiber optic insert arrangements on page 24.
- Wiring shall be one-to-one for all insert arrangements
- Cables over 240" (20ft) shall be shipped on a reel.
- Kit GBS1000-00033 shall be used for inspection/cleaning.
- Recommended SeaKing cleaning tool: GCLT-H160.
- All solder cup cavities are isolated with M23053/8 heat shrink tubing.
- See drawing 700-001 for connector dimensions, materials, and finishes. See PBOF assembly fittings (709-003) for more information.
- 11. Wiring for each arrangement is one to one. Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
- 12. Fiber optic terminus: 1.58 mm ferrule id, single o-ring.

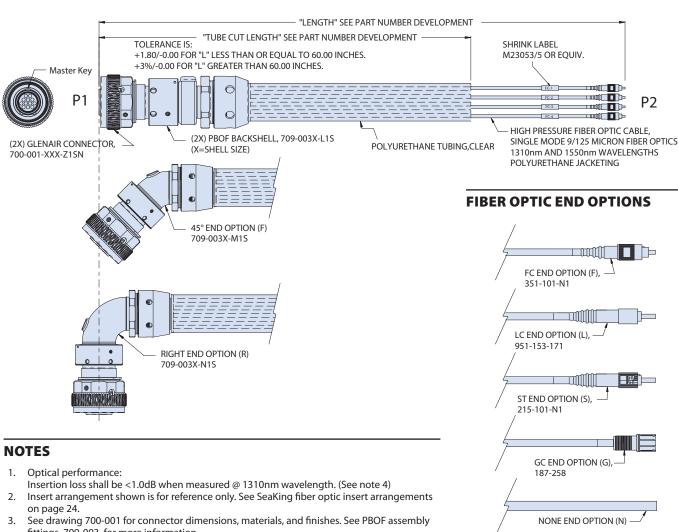


DEEP WATER SeaKing™ Fiber Optic



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

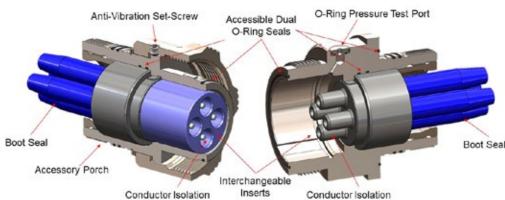




- fittings, 709-003, for more information.
- Wiring for each arrangement is one to one. Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and
- Kit GBS1000-00033 shall be used for inspection/cleaning.
- Recommended SeaKing cleaning tool: GCLT-H160.
- 7. Fiber optic terminus: 1.58 mm ferrule id, single O-ring



lenair's SeaKing Power connector family is rated to 10K PSI in open-face or mated condition. These high-voltage (1–3kV) 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 ports 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
- **Boot Seal** Keyed mating interface for mismate prevention



HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions



Available configurations and applications

CABLE CONNECTOR PLUG (CCP)



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)



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 [™] Power Performance Specifications						
Pressure Rating	Plug: 10,000 psi, mated condition Receptacles: 10,000 psi mated and open face	per ISO 13628-6				
Electrical	1–3kV, 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				



HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions

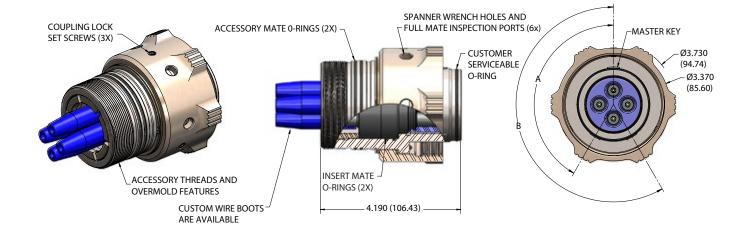


Size 48, 4-way #8 HV contacts, 3kV, 50 amps/contact

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

How to Order							
Sample Part Number		700-101	-48HV4	Z 1	S	N	
Series	700-101 = cable c	700-101 = cable connector plug					
Shell Size/ Insert Arrangement	-48HV4 = shell size	-48HV4 = shell size 48/layout HV4					
Shell Material	Z1 = SS super dup	Z1 = SS super duplex TC = titanium					
Contact Style	P = pins	S = 9	sockets				
Polarization	N = normal, A, B, C; see key positions table at right						

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





HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions



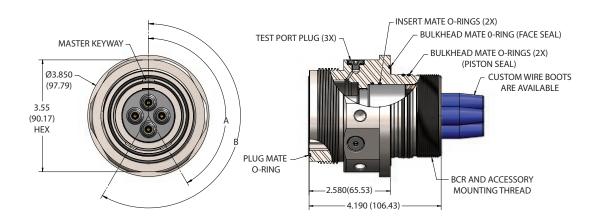
Size 48, 4-way #8 HV contacts, 3kV, 50 amps/contact

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

How to Order							
Sample Part Number		700-106	-48HV4	Z 1	S	N	В
Series	700-106 = bulkhed connector recepta						
Shell Size / Insert Arrangement	-48HV4 = shell size	-48HV4 = shell size 48 / layout HV4					
Shell Material	Z1 = SS super duplex TC = titanium						
Contact Style	P = pins S = sockets						
Polarization	N = normal, A, B, C	N = normal, A, B, C; see key positions table at right					
Mounting Option*	B = BCR option includes bulkhead nut and washer F = FCR option and includes indexable mounting flange (fastener not included) N = None, receptacle is mountable to a threaded bulkhead						
Shell Option*	API = test ports; or	API = test ports; omit for none					

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

^{*}Mates only with 700-101 Cable Connector Plug



^{*}Mates only with 700-106 BCR or FCR



HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions



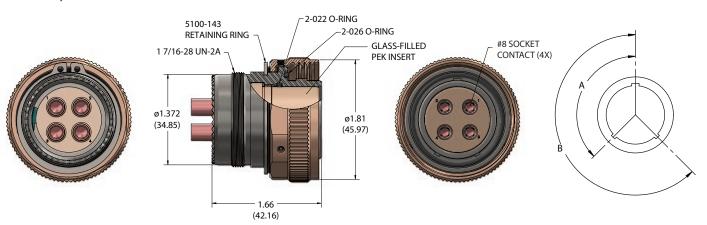
Size P, 4-way #8 HV contacts, 1kV, 50 amps/contact

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

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

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

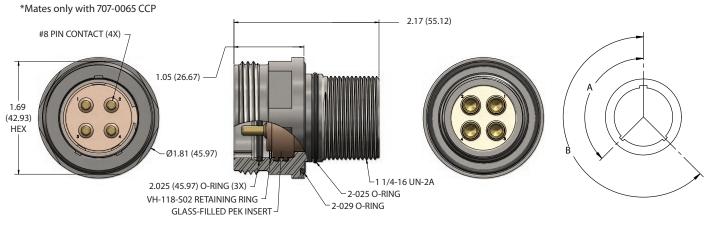
^{*}Mates only with 707-0066 BCR



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

How to Order						
Sample Part Numbe	r	707-0066	-P4	- Z1	S	N
Series	707-0066 = bulk he	707-0066 = bulk head receptacle (BCR)				
Shell Size / Insert Arrangement	P4	P4				
Shell Material	Z1 = stainless steel	Z1 = stainless steel TC = titanium				
Contact Style	P = pin (707-0066 only) S = socket (707-0065 only)					
Polarization	Polarization N = Normal, A, B, C; see key positions table					

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





HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions



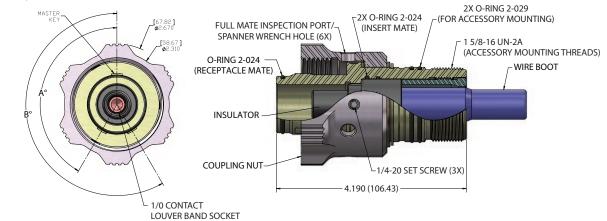
Size 32, 1-way #1/0 HV contact, 1kV, 150 amps/contact

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

How to Order					
Sample Part Number 707-0088 Z1				P	N
Series	707-0088 =cable connector plug				
Shell Material	Shell Material Z1 = stainless steel TC = titanium				
Contact Style P = pin S = socket					
Polarization N = normal, A, B, C; see key positions table at right					

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

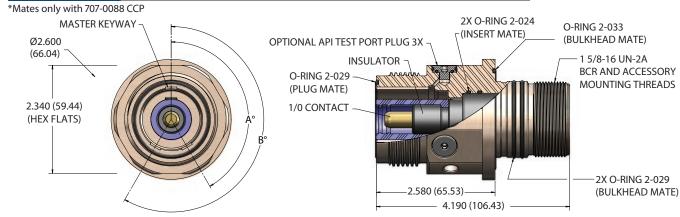
*Mates only with 707-0089 FCR or BCR



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

		How to Order					
Sample Part Numb	er	707-0089	Z 1	Р	N	-N	-API
Series		707-0089 = flange connector receptacle or bulkhead connector receptacle					
Shell Material	Z1 = stainless steel TC = titanium						
Contact Style	P = pin S = socket						
Polarization	N = normal, A, B, C; see key positions table at right						
B = BCR option and includes bulkhead nut and washer F = FCR option and includes indexable mounting flange N = none, receptacle is mountable to a threaded bulkhead							
Shell Option*	API = test ports; omit for none						

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





HIGH VOLTAGE SUBSEA

SeaKing™ Power connectors for underwater primary power junctions



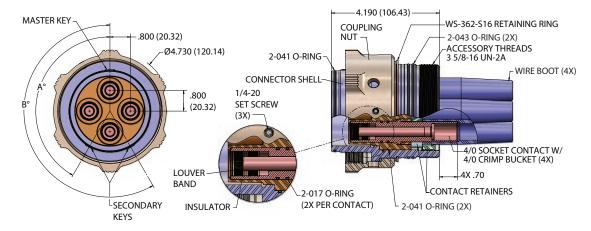
Size 64, 4-way #4/0 HV contact, 1kV, 350 amps/contact

How to Order				
Sample Part Number 707-0142 1				N
Series	707-0142 = SeaKing Power			
Connector Style	-1 = cable connector plug (CCP) -6 = flange connector receptacle (FCR) -7 = bulkhead connector receptacle (BCR)			
Key Position N = normal, A, B, C; see key positions table				

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

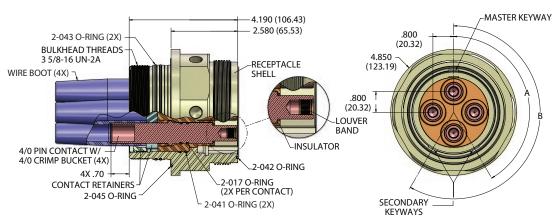
707-0142-1 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 64, 4-WAY #4/0 HV CONTACTS*

*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





HIGH VOLTAGE SUBSEA

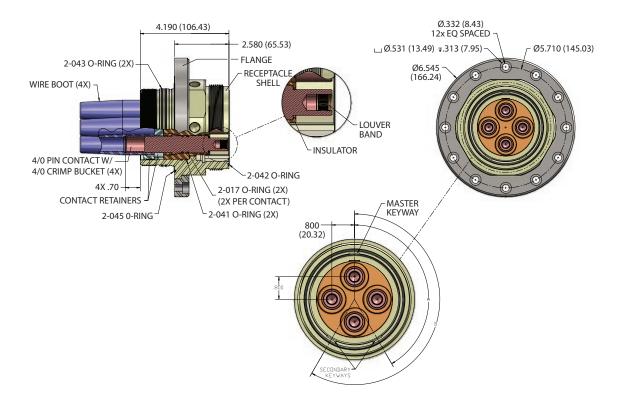
SeaKing[™] Power connectors for underwater primary power junctions



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





DRY MATE ELECTRICAL SuperG55™

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

The SuperG55™ 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™ 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



Plug (CCP)

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.



- 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)

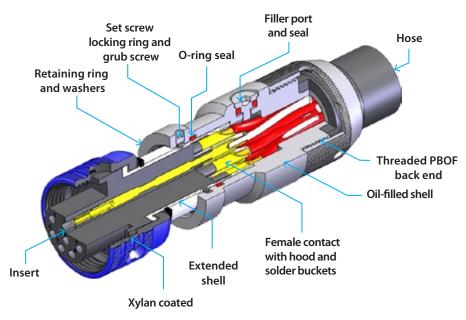


10K PSI / 700 BAR / 7000M SuperG55™ High-Pressure, **Dry-Mate Underwater Connectors**

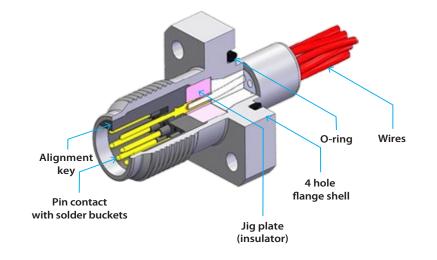


Key mechanical and environmental features

SUPERG55™ PRESSURE-BALANCED OIL-FILLED CABLE CONNECTOR PLUG (CCP)



SUPERG55™ FLANGE CONNECTOR RECEPTACLE (FCR)



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

	SuperG55™ Performance Specifications Mating Cycles 500				
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™ 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™ Ethernet option is available in the 1508, 2013 and 2021 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)



1503

3 Size #12 AWG



1504

4 Size #16 AWG

Contacts



6 size #16 AWG

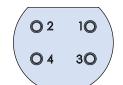
Contacts



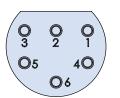
1508*

8 size #16 AWG Contacts

Contacts	
10	Q 2



Shell Size 15

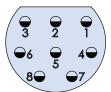


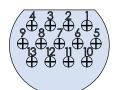
2003 3 Size #10 AWG Contacts

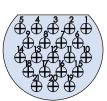


Shell Size 20







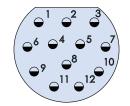


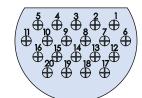
2008* 8 Size #12 AWG Contacts

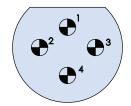
2013* 13 Size #16 AWG

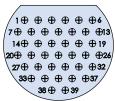
Shell Size 20

2021* 21 Size #16 AWG









Shell Size 24 Shell Size 32 2420 3204*** 3239** 2412 12 Size #12 AWG 20 Size #16 AWG 4 Size #6 AWG 39 Size #16 AWG

Bulkhead Mounting Torque (Values are for dry non-lubricated threads)

Size 15 - 14.12NM (125LB. INS.) Size 20 - 18.64NM (165LB.INS.) Size 24 - 25.42NM (225LB.INS.) Size 32 - TBD

*Compatible with high-speed Ethernet **3239 is not intermateable with any other brand of

connector. Contact factory for details *** Contact factory for availability Custom insert arrangements available, contact factory.



10K PSI / 700 BAR / 7000M SuperG55™ High-Pressure, Dry-Mate Subsea Connectors



Super G55 Series connectors

G55 A1 ATTACHABLE CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order							
Sample Part Number		G55A1	-1508	-0000			
Series	SuperG55™ = underwater dry-mate, long version (CCP), attachable						
Shell Shell Size/Insert Arrangement Size	See shell size/insert (page 38)	arrangements					
Overall Length	In feet (0000 = no cable, 0001 = one foot, etc.)						
Potting Boot	PB = potting boot; omit for none. Not required if used for OFR1						
Material Option	Omit for stainless ste B = brass coupling n	- Promotor up man anno mannon					

G55 01 STRAIGHT OVERMOLDED, CABLE PLUG (CCP)



	SuperG5	5™ - How To Or	der			
Sample Part Numl	per	G5501	-1508	-0004		
Series	SuperG55™ = under dry-mate, straight ov					
Shell Size/Insert Arrangement	See shell size/insert (page 38)	arrangements	-			
Cable Length	In feet (0001 = one f	In feet (0001 = one foot, 0002 = 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 ste B = brass coupling no		PK = peek coupling nut and barrel See material options on page 40			
Back-to-Back	B2B = back-to-back;	omit if not requ	ired			

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



	SuperG55™ - How To Order							
Sample Part Number		G55R1	-1508	-0004				
Series	SuperG55™ = underwateright angle overmolded (, ,	,					
Shell Size/Insert Arrangement	See shell size/insert arra	See shell size / insert arrangements (page 38)						
Cable Length	In feet (0001 = one foot,	In feet (0001 = one foot, 0002 = two feet etc.)						
Inch Increments	3, 6 or 9 inches; omit for	3, 6 or 9 inches; omit for whole feet lengths						
Material Option	Omit for stainless steel B = brass coupling nut ar							
Back-to-Back	B2B = back-to-back; omi	t if not requ	ired					





Super G55 Series connectors

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



SuperG55™ - How To Order							
Sample Part Number	G550F1	-1508	-0010				
Series	SuperG55™ = Underwate straight oil-filled CCP	r dry-mate,					
Shell Size/Insert Arrangement	See shell size/insert arran	gements (page 40))				
Overall Length	In feet (0000 = no cable, no hose 0001 = 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 additional back-to-back options

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



SuperG55™ - How To Order								
Sample Part Number	G550FR1	-1508	-0010					
Series	SuperG55™ = Underwate right angle oil-filled CCP	er dry-mate,						
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 40)							
Overall Length	In feet (0000 = no cable, no hose 0001 = one foot, etc.)							
Back-to-Back*	B2B = back-to-back (min. 7ft hose length); omit if not required							

^{*}Consult factory for additional 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							
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)							
Material Option	Omit for stainless steel PK = peek coupling nut and barre See material options on page 37							

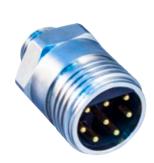


10K PSI / 700 BAR / 7000M SuperG55™ High-Pressure, Dry-Mate Subsea Connectors



Super G55 Series connectors

G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR)



SuperG55™ - How To Order						
Sample Part Number		5507	-1508	-0004		
Series		SuperG55™ = underwater dry-mate, bulkhead connector receptacle (BCR)				
Shell Size/Insert Arrangement	See shell size / insert arrangement	See shell size/insert arrangements (page 38)				
Cable Length	In feet (0001 = 1 foot, 0004 = 4 fe	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)				
Material Option	Omit for stainless steel B = brass coupling nut and barrel	PK = peek coupling nut and barr d barrel See material options on page 40				

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 arrangen						
Cable Length	In feet (0000 = no cable, 0001 = one foot, etc.)						
Material Option	Omit for stainless steel B = brass coupling nut and ba	PK = peek coupling nut and barrel d barrel See material options on page 40					

^{*}Currently only 1504, 1506, 1508, 2013, 2021 & 2420 insert arrangements are available.

G55 02 STRAIGHT OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)



	SuperG55™ - H	low To Orde	er			
Sample Part Numbe	r	G5502	-1508	-0004		
Series	SuperG55™ = underwater straight overmolded CCR	dry-mate,				
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 38)					
Cable Length	In feet (0001 = one foot, 0002 = two feet etc.)					
Inch Increments	3, 6 or 9 inches; omit for w	hole feet ler	ngths		•	
Material Option	Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 40					
Back-to-Back	B2B = back-to-back; omit if not required					





Super G55 Series connectors

G55 R2 RIGHT ANGLE OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order							
Sample Part Number	r	G55R2	-1508	-0004			
Series	•	SuperG55™ = underwater dry-mate, right angle overmolded CCR					
Shell Size/Insert Arrangement	See shell size / insert arrang	See shell size/insert arrangements (page 40)					
Cable Length	In feet (0001 = one foot, 00	002 = two f	eet etc.)				
Inch Increments	3, 6 or 9 inches; omit for wl	nole feet le	ngths		-		
Material Option	Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 37						
Back-to-Back	B2B = back-to-back; omit i	f not requir	ed				

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



	SuperG55™ - How To Order					
Sample Part Numbe	r	G550F2	-1508	-0010		
Series	SuperG55™ = Underwate straight oil-filled CCR	SuperG55™ = Underwater dry-mate, straight oil-filled CCR				
Shell Size/Insert Arrangement*	See shell size/insert arrar	See shell size / insert arrangements (page 40)				
Overall Length	In feet (0000 = no cable, no hose, 0001 = one foot, etc.)					
Back-to-Back**	B2B = back-to-back (min. 7ft hose length); omit if not required					

^{*}Currently only 1504, 1506, 1508, 2013, 2021, and 2420 insert arrangements are available

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



SuperG55™ - How To Order						
Sample Part Number		G550FR2	-1508	-0010		
Series	SuperG55™ = Underwate right angle oil-filled CCR	er dry-mate,				
Shell Size/Insert Arrangement*	See shell size/insert arrar	See shell size / insert arrangements (page 40)				
Overall Length	In feet (0000 = no cable, no hose, 0001 = one foot, etc.)					
Back-to-Back*	ack-to-Back* B2B = back-to-back (min. 7ft hose length); omit if not required					

^{*}Currently only 1504, 1506, 1508, 2013, 2021, and 2420 insert arrangements are available



10K PSI / 700 BAR / 7000M SuperG55™ High-Pressure, Dry-Mate Subsea Connectors



Super G55 Series connectors

G55 D1 DUMMY SEALING PLUG (DSP)



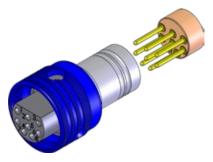
SuperG55™ - How To Order						
Sample Part Number G55D1 -1508 -000						
Series	SuperG55™ = dummy sealing plug (DSP)					
Shell Size/Insert Arrangement	See shell size / insert arranger	See shell size/insert arrangements (page 38)				
Cable Length	0000 = no cable					
Material Option	Omit for stainless steel B = brass coupling nut and barrel See material options on page 40					

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 arrar	ngements (page 38)					
Cable Length	0000 = no cable							
Material Option	Omit for stainless steel B = brass coupling nut an			g nut and ns on page				

G55 M1 SOCKET TO SOCKET (CCP)



SuperG55™ - How To Order						
Sample Part Number		G55M1	-1508	-0001		
Series	SuperG55™ = underwate back-to-back socket CCP	er dry-mate,				
Shell Size/Insert Arrangement	See shell size/insert arrar (page 38)	ngements	_			
Cable Length	In feet (0000 = no cable,	0001 = one	foot, etc.)			
Material Option	Omit for stainless steel B = brass coupling nut an		K = peek cou ee material op			

^{**}Consult factory for additional back-to-back options

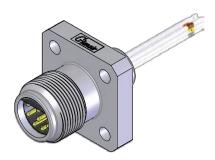
^{**}Consult factory for additional back-to-back options





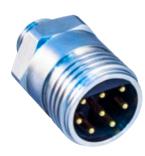
Super G55 Series custom connectors

G55 06 FLANGE CONNECTOR RECEPTACLE (FCR) WITH EARTH LEAD



SuperG55™ - How To Order							
Sample Part Number G5506 -1508 -0004 -EI							
Series	SuperG55™ = underwater FCR with earth lead	dry-mate,					
Shell Size/Insert Arrangement	See shell size/insert arrang	See shell size/insert arrangements (page 40)					
Cable Length	In feet (0001 = 1 foot, 000	4 = 4 feet, star	ndard len	gth)			
Earth Lead	EL = earth lead (ground)						
Material Option	T = titanium; omit for stain	less steel				-	

G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR) WITH EARTH LEAD



	SuperG55™ - How To Order						
Sample Part Number	r	G5507	-1508	-0004	-EL		
Series	SuperG55™ = underwater with earth lead	dry-mate, BCR					
Shell Size/Insert Arrangement	See shell size/insert arrang	See shell size / insert arrangements (page 40)					
Cable Length	In feet (0001 = 1 foot, 0004	= 4 feet, standa	ard lengt	h)			
Earthing Lead	EL = earth lead (ground)						
Material Option T = titanium; omit for stainless steel							

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



SuperG55™ - How To Order						
Sample Part Number		G5506IF	-1508	-0004		
Series	SuperG55™ = underwater connector receptacle (FCR) flange					
Shell Size/Insert Arrangement	See shell size / insert arrang	ements (page 40)	1			
Cable Length	In feet (0001 = 1 foot, 0004	= 4 feet, standard	d length)			
Material Option	Omit for stainless steel		ek coupling			



10K PSI / 700 BAR / 7000M SuperG66™ High-Pressure, **Dry-Mate Subsea Connectors**



Super G66 reverse-gender connectors

G66 OVERMOLDED CABLE CONNECTOR PLUGS AND RECEPTACLES



G66 OIL-FILLED CABLE CONNECTOR PLUGS AND REČEPTACLES



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

COMING SOON: SuperG66™ - Consult factory for availability

SuperG66™ = underwater dry-mate,

See shell size / insert arrangements

0000 = no cable; also available in

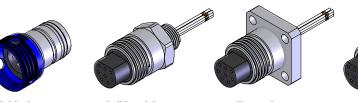
specified lengths for test purposes

PK = peek coupling nut and barrel

B = brass coupling nut and barrel Reference material options on page 40

cable connector plug (CCP)

Omit for stainless steel





(page 38)

Sample Part Number

Series

Shell Size/Insert

Arrangement

Cable Length

Material Option

Potting Boot

Flange Connector Cable Connector Receptacle Receptacle

-2008 -0000



Receptacle

AND RECEPTACLE

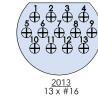


Dummy Sealing Dummy Sealing

Plug G66D1

INSERT ARRANGEMENTS





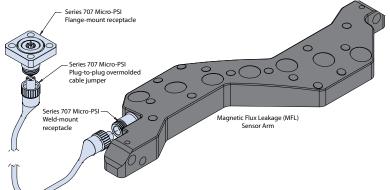
Additional insert arrangements can be engineered, contact factory

PB = potting boot; omit if not required. Not required if changed to OFR1



Microminiature high-pressure connectors and cables

The Series 707 Micro-PSI is an ultraminiaturized 10K 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 two high-density micro TwistPin layouts for sensor applications and high-speed Gigabit Ethernet, and a Coax contact layout for 5 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 <1X10⁻⁷ scc He/sec hermetic performance. Serviceable O-rings on plugs and dual piston and face O-rings on receptacles provide high-reliability sealing.



◆ Application example shows the 707 Micro-PSI used to interconnect an MFL sensor to on-board PIG data storage.



- 10,000 PSI pressure rated
- 5 GHz Coax
- Less than 1 x 10^-7 scc He/sec @ 1 ATM pressure differential
- Special-purpose high density (.050" contact spacing) intelligent inspection (PIG) connector series
- 3 Amp high-speed **Gigabit Ethernet-ready**
- -20° to +150°C temperature range
- High-density, small form-factor



10K PSI SOLUTION Micro-PSI



Microminiature, high-pressure **Specifications and insert arrangements**

MICRO PSI HOW TO ORDER, SPECIFICATIONS, MATERIALS AND FINISHES

	MIcro-PS	SI - How To Orde	er					
Sample Part Number			707-0264	-7	ME4	Z1	S	N
Series / Basic P/N	707-0264 = Series and Basic Part Number	er						
Connector Style	1 = CCP (Cable Connector Plug) 6 = FCR (Flange Mount Receptacle)	•	le Connector Receptacle khead Mount Receptacle	•				
Shell Size/Layout	See Insert Arrangements							
Shell Material	Z1 = Stainless Steel							
Contact Type and Termination Style	Plugs P = Pin / Solder Cups B = Pin / Flying Leads (6 inches long) C = Pin / PCB Terminals			ng)			-	
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 100 VDC per EIA-364-21 Coax Performance: DC to 5 GHz Temperature Range: -20°C to +150°C

Hermeticity:

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

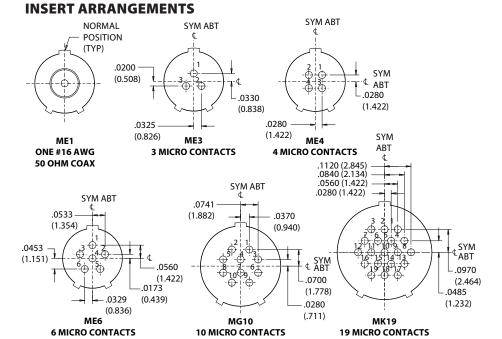
Connector Material/Finish

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® overmolding for caustic chemical
- 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

	MicroPSI Key and Keyway Positions						
	Key	Rotation					
Key Position	Х°	Υ°	Plug	Receptacle			
Normal (N)	150°	210°	MASTER KEY	ALIGNMENT INDICATOR, RED MASTER KEYWAY			
Α	75°	210°	×				
В	95°	230°					
С	140°	275°	7 40				





10K PSI SOLUTION Micro-PSI



Microminiature, high-pressure connectors and cables



10K PSI SOLUTION Micro-PSI

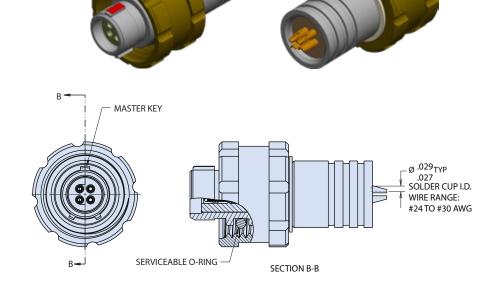


Microminiature, high-pressure connectors and cables

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



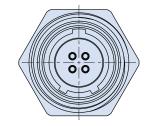


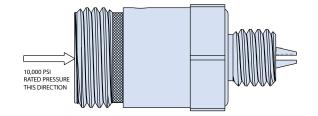
707-0264-5 MICRO-PSI CABLE CONNECTOR RECEPTACLE

- 10K psi open-face rated
- Vitreous glass sealed, <1X10⁻⁷ 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**



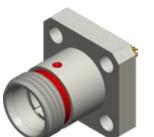




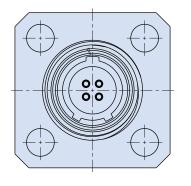


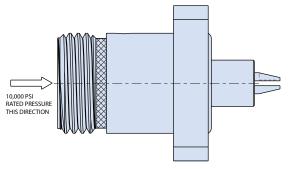
707-0264-6 MICRO-PSI FLANGE MOUNT RECEPTACLE

- 10K psi open-face rated
- Vitreous glass sealed, <1X10⁻⁷ scc He/sec hermeticity
- Operating temperature -20° to +150° C
- Fail-safe piston and mounting face O-rings
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 **CCP Plugs**





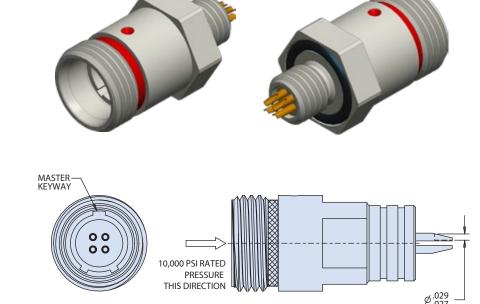




707-0264-7 MICRO-PSI BULKHEAD MOUNT RECEPTACLE

- 10K psi open-face rated
- Vitreous glass sealed, <1X10⁻⁷ scc He/sec hermeticity
- Operating temperature -20° to +150°C
- Fail-safe piston and mounting face O-rings
- Alignment and full-mate indicators
- Flying lead option available
- Mates with 707-0264-1 **CCP Plugs**





SOLDER CUP I.D. WIRE RANGE: #24 TO #30 AWG



10K PSI SOLUTION Micro-PSI



Microminiature, high-pressure connectors and cables



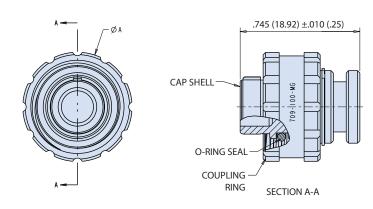
10K PSI SOLUTION Micro-PSI



Microminiature, high-pressure connectors and cables

709-100 MICRO-PSI PLUG PRESSURE

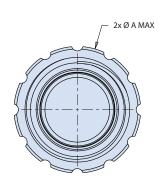
- 10K psi rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance

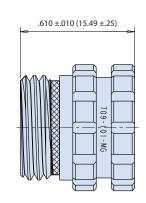




709-101 MICRO-PSI RECEPTACLE PRESSURE

- 10K psi rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance

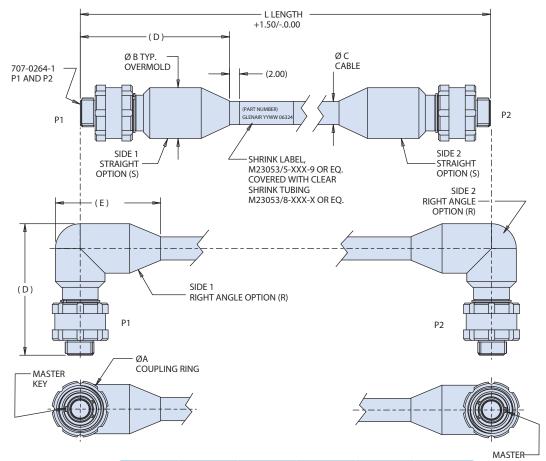




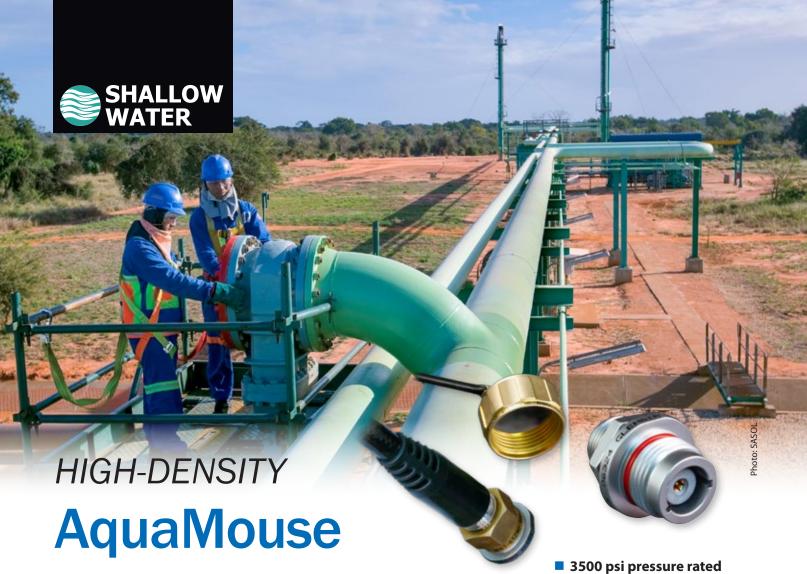


7071-0069 MICRO-PSI OVERMOLDED PLUG-TO-PLUG / PIGTAIL CABLE ASSEMBLY

Micro-PSI - How To Order									
Sample Part Number		7071-0069	-S	R	-ME4	-Z1	U	N	-4
Series / Basic P/N	7071-0069 = Back-to-Back or Pigtail P	lug Cable Assembly							
Overmold Style (P1)	R = Right Angle S = Straight	Regional Region							
Overmold Style (P2)	$\mathbf{R} = \text{Right Angle}$ $\mathbf{S} = \text{Straight}$ $\mathbf{N} = \mathbf{N}$	one (pigtail assembly)							
Shell Size / Contact Layout	See page 50								
Plug Shell Material	Z1 = Stainless Steel TC = Titanium								
Overmold and Jacket Mtrl	V = Viton U = Polyurethane								
Clocking Position	N = Normal, A, B, C (See page 50)							-	
Length (inches)	Length in inches, i.e. 4 equals 4 inches								



Shell Size	A (Ref) Cplg Ring	B Nom. Overmold	C Cable	(D) Overmold	(E) 90 Length
ME	0.550	0.470	0.265	1.50	1.00
MG	0.685	0.585	0.342	1.50	1.13
MK	0.750	0.675	0.590	1.50	1.16



Ultraminiature 3500 PSI

Originally 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.

- **■** High-temperature and corrosive chemicalresistant Viton® 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



Jam Nut Mount

Series 802



Series 802 Square Flange Receptacle



Series 802 Hermetic



Series 802 Hermetic **Bulkhead Feed-Thru**

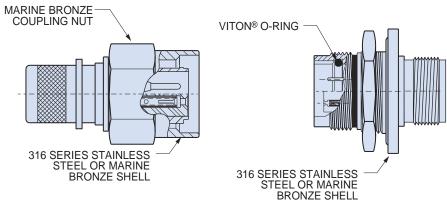
HIGH-DENSITY 2400M / 3500 PSI

Ultraminiature Harsh-Environment



Series 802 AquaMouse™ performance specifications and material and finish

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



Series 802 Receptacle

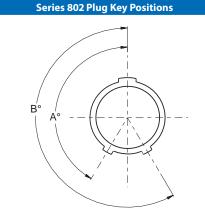
Stainless Steel or Marine Bronze

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

3500 psi

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

AQUAMOUSE SPECIFICATIONS AND PLUG KEY POSITIONS



Series 802 Plug

	Key Ro	Key Rotation			
Key Position	Α°	В°			
Normal (A)	150°	210°			
В	75°	210°			
С	95°	230°			
D	140°	275°			
E	75°	275°			
F	9°	210°			

	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 [®]				



and overmolded cables for inline inspection pigs and shallow subsea applications

esigned for use in oceanographic, geophysical and other severe industrial Denvironments, Glenair Series 22 Geo-Marine® 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® 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.



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 quarantees 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® overmolded cable assemblies



PROVEN-PERFORMANCE **Geo-Marine® Connectors**



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



Range of Offerings

Series 22 Geo-Marine® 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







Square Flange



Solder-Mount



Bulkhead Feed-Thru



Single-pin HTHP

RUGGEDIZED STAINLESS STEEL BACKSHELLS AND OTHER CONNECTOR ACCESSORIES



Jam Nut

Environmental strain relief backshell



adapter



strain relief backshell



protective covers



PROVEN-PERFORMANCE **Geo-Marine® Connectors**

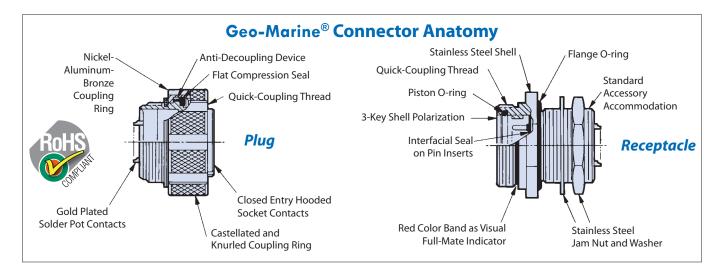
Glenair.



Performance Specifications						
Hydrostatic Pressure Rat	ing:		5,000 PSI (fully mated)			
Operating Temperature:			-65°C to +125°C			
Durability:			500 Cycles of mate/demat	te		
Insulation Resistance:			1000 Megohms minimum	at 500 VDC		
		Class H He	ermetic Receptacles			
0	pen-Face Pressure Rating			1,000	to 5,000 PSI	
	Hermeticity		Less than	1 X 10 ⁻⁶ scc	He/second @ 1 atmosphere	
		Cu	ırrent Rating			
Current	Rating	Envir	onmental		Hermetic	
Size 22 (Contact	500 VE	DC, 5 amps		500 VDC, 3 amps	
Size 20 (Contact	500 VD	C, 7.5 amps		500 VDC, 5 amps	
Size 16 (Contact	750 VD	OC, 13 amps		750 VDC, 10 amps	
Size 12 (Contact	750 VD	OC, 23 amps		750 VDC, 17 amps	
		Se	ervice Rating			
C	Sug	gested Operational Vo	oltage (Sea Level)		Test Voltage	
Contact Size	AC(RMS)	DC		(Sea Level)	
22 GA	400		550		1300 VDC	
20 GA	600		850		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							
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				





PROVEN-PERFORMANCE **Geo-Marine® Connectors**



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





Connector Materials and Potting						
Item	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"	tors, Class "E" Epiall 1908, Diallyl Phthalate or Hysol CP2-4289					
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:

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



tandard circular and rectangular connectors are rated for +125°C due to elastomeric materials that cannot withstand higher Otemperatures and pressures. Glenair's high-temperature ThermaRex series is built to withstand temperatures as high as +300°C and the extreme pressures of bottom-hole applications such as logging while drilling (LWD) and measurement while drilling (MWD). Designed for use in electronic modules and tools, these high-density, precision-machined rectangular and circular connectors are ideally suited for reliability and performance in the HTHP domain.

300°C THERMAREX HT CONNECTORS: SERIES 806, SUPERNINE, SERIES 79





- Service rating up to 300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction
- Available in Series 806 Mil-Aero, SuperNine® D38999 type, EN2997, or Series 79 Micro-Crimp rectangular connector styles
- Utilizes Glenair Crown Ring contacts

600°C THERMAREX UHT CONNECTOR



- 300°C to 600°C service range
- Vibration-resistant threaded coupling
- Specialized contacts, laser welds, and metal seals
- Utilizes ultra-high temperature-tolerant Mineral Insulated cable
- Ideal for nuclear and other extreme temperature applications



EXTREME-TEMPERATURE TOLERANT **ThermaRex Interconnect Solutions**



Cryogenic and high-temperature connector and accessory product showcase

-150°C THERMAREX CRYO CONNECTOR



CRYO

- Dynamic cryogenic connector
- Vibration at -150°C
- Ultra low-temperature **Duralectric K seals**

THERMAREX HIGH-TEMPERATURE HERMETIC



High-temperature sealing technology maintains 1X10⁻⁷ leak-rate performance at 300°C

CROWN RING CONTACTS



- Crimp removable contacts
- Suitable for use at 300°C or higher while maintaining low electrical
- Stainless steel Crown Ring provides compression force on the socket
- Superior vibration resistance
- Higher current carrying capabilities, lower contact resistance

300°C THERMAREX WIRE



- Special nickel-coated copper alloy conductors
- 300°C continuous service
- **24** to 8 AWG, 10 colors of insulation
- Single-wires plus jacketed, shielded, twisted pair available

300°C THERMAREX POLYMER-CORE CONDUIT



- High-temperature-tolerant flexible polymer-core conduit
- All standard colors: Black, clear, orange, blue, yellow
- Qualification test report GT-17-261 available
- 300°C continuous service
- Available with high-temperature braid shield and/or jacket

300°C THERMAREX METAL-CORE CONDUIT



- Flexible passivated stainless steel core conduit
- High-temperature-tolerant ThermaRex jacket
- .127" to .250" outer diameter sizes
- 300°C continuous service

ARMORLITE CF



P/N 103-126

- Stainless steel over copper microfilament EMI shield
- High temperature -80°C to 300°C
- Corrosion / harsh environment resistant
- 1000 hour salt spray testing completed
- 70% reduced weight vs. standard braid
- Superb electrical resistance and shielding performance



HIGH-TEMPERATURE TOLERANT ThermaRex HT **SuperNine® Connectors**







- Service rating up to 300°C
- **■** Vibration-resistant threaded coupling
- **■** High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction

How To Order ThermaRex SuperNine connectors								
Sample Part Number	233-273	-20	Z 1	17	-26	P	N	
Series / Basic Part No.	233-273 High-temperature ThermaRex SuperNine connector							
Connector Style	 -20 = Receptacle, square flange-mount -24 = Receptacle, jam nut -26 = Plug 							
Material/Finish	Z1 = Passivated CRES							
Shell Size	9 , 11, 13, 17, 19, 21, 23, 25			-				
Insert Arrangement	Per M1560. See insert arrangement table	Per M1560. See insert arrangement tables below						
Contact Style	P = PIn contacts S = Socket contacts A = Pin insert, less contacts B = Socket insert, less contacts							
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)							

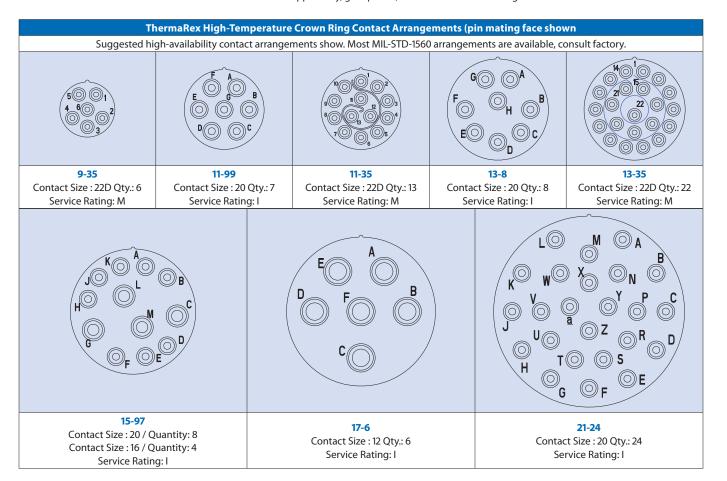
MATERIAL / FINISH NOTES

Plug and receptacle shells, coupling nut - Passivated CRES

Insulator - high-grade ceramic dielectric

Grommet, interfacial, and peripheral seals - high-temp silicone

Contacts - copper alloy, gold plated, CRES hood and crown ring on socket contacts



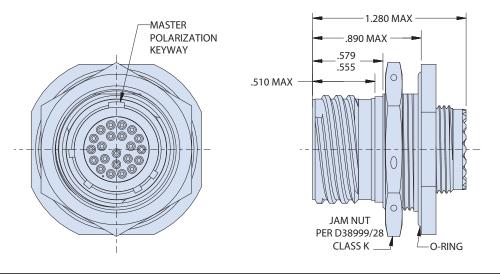


HIGH-TEMPERATURE TOLERANT ThermaRex HT **SuperNine® Connectors**

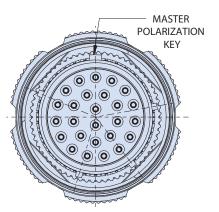


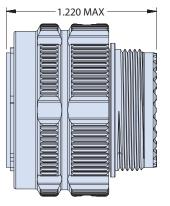
High-performance fast mate/demate solution

233-273-24 THERMAREX SUPERNINE RECEPTACLE, JAM NUT

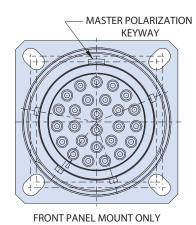


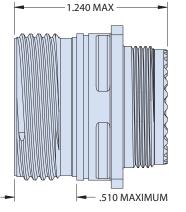
233-273-26 THERMAREX SUPERNINE PLUG





233-273-20 THERMAREX SUPERNINE RECEPTACLE, SQUARE FLANGE-MOUNT







ThermaRex HT Series 806 Mil-Aero Connectors



Micro-miniature triple-start stub ACME solution



- Operating temperature -65°to +300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction

MATERIAL / FINISH NOTES

Plug and receptacle shells, barrel, coupling nut, jam nut, hex nut - Passivated CRES

Insulator - high-grade ceramic dielectric

Grommet, interfacial seals - high-temp silicone

Contacts - copper alloy, gold plated, CRES hood and crown ring on socket contacts

Series 806 Arrangements with #20 Contacts (1800 Vac, 7.5 A, pin mating face shown) 14-20 10-8 11-10 12-15 16-31 Arrangement No. Arrangement No. 20-55 22-69 Series 806 Arrangements with #22HD Contacts (1300 Vac, 5 A, pin mating face shown) 12-26 9-11 10-15 11-19 14-39 Arrangement No. 18-85 20-110



HIGH-TEMPERATURE TOLERANT

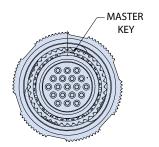
ThermaRex HT Series 806 Mil-Aero Connectors

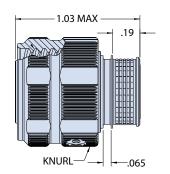


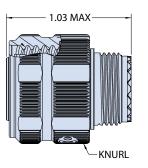
Micro-miniature triple-start stub ACME solution

SERIES 806 MIL-AERO PLUG

How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle								
Sample Part Number	806-042	Z 1	11-19	S	M	Α		
Series / Basic Part No.	806-042 High-temperature ThermaRex Series 806 plug							
Material/Finish	Z1 = Passivated CRES							
Shell Size/Insert Arr.	Per 806-015, See tables							
Contact Style	P = PIn A = Pin connector, less contacts S = Socket B = Socket connector, less contacts							
Shell Style	M = Metric accessory thread B = Banding pla	tform			•			
Polarization Keyway Code	A, B, C, D, E, F					-		

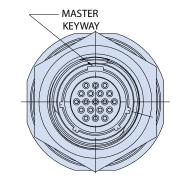


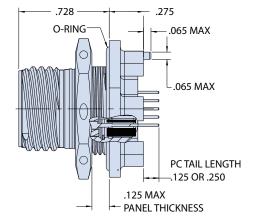


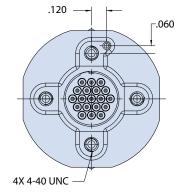


SERIES 806 MIL-AERO JAM NUT RECEPTACLE WITH PCB STANDOFF

How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle								
Sample Part Number	806-041	Z1	11-19	P	N			
Series / Basic Part No.	806-041 High-temperature ThermaRex Series 806 jam nut receptacle with PCB standoff							
Material/Finish	Z1 = Passivated CRES							
Shell Size/Insert Arr.	Per 806-015, See tables							
Contact Style	P = PIn contacts only							
Polarization Keyway Code	A, B, C, D, E, F							









HIGH-TEMPERATURE TOLERANT

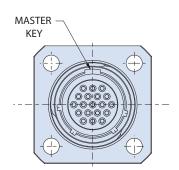
ThermaRex HT **Series 806 Mil-Aero Connectors**

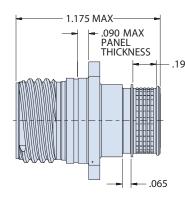


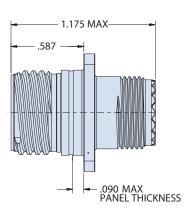
Micro-miniature triple-start stub ACME solution

SERIES 806 MIL-AERO SQUARE FLANGE RECEPTACLE

How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle							
Sample Part Number	806-052	Z1	11-19	S	М	Т	Α
Series / Basic Part No.	806-052 High-temperature ThermaRex Series 806 square-flange receptacle						
Material/Finish	Z1 = Passivated CRES						
Shell Size/Insert Arr.	Per 806-015, See tables						
Contact Style	P = PIn A = Pin connector, less contacts S = Socket B = Socket connector, less contacts						
Shell Style	M = Metric accessory thread B = Banding platform						
Panel Mounting	T = Thru-hole						
Polarization Keyway Code	A, B, C, D, E, F						









HIGH-TEMPERATURE TOLERANT ThermaRex HT

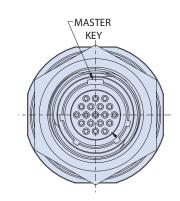


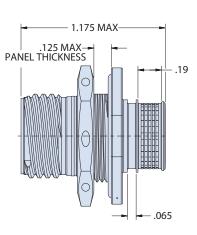
Series 806 Mil-Aero Connectors

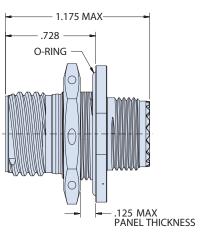
Micro-miniature triple-start stub ACME solution

SERIES 806 MIL-AERO JAM NUT RECEPTACLE

How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle							
Sample Part Number	806-053	Z1	11-19	S	M	Α	
Series / Basic Part No.	806-053 High-temperature ThermaRex Series 806 jam-nut receptacle						
Material/Finish	Z1 = Passivated CRES						
Shell Size/Insert Arr.	Per 806-015, See tables						
Contact Style	P = PIn A = Pin connector, less contacts S = Socket B = Socket connector, less contacts						
Shell Style	M = Metric accessory thread B = Banding pla	tform					
Polarization Keyway Code	A, B, C, D, E, F						









HIGH-TEMPERATURE TOLERANT

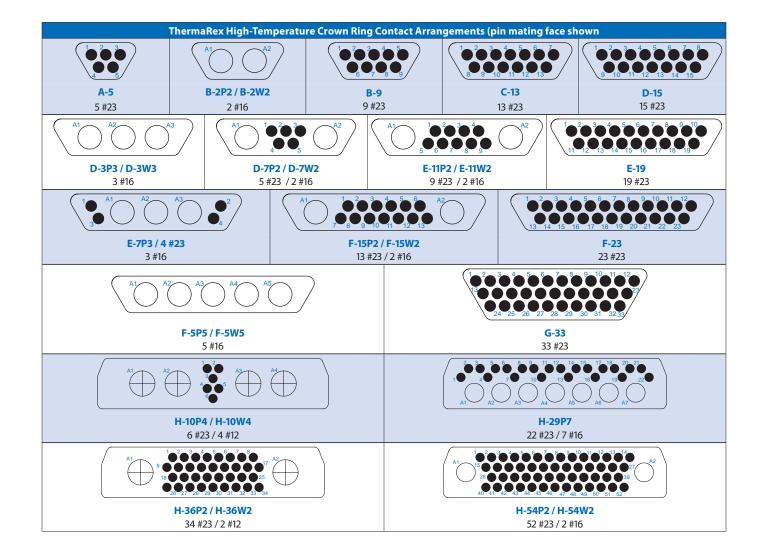
ThermaRex HT Series 79 Micro-D **Connectors with Micro-Crimp Contacts**

How To Order / Contact Arrangements



How To Order ThermaRex Series 79 connectors						
Sample Part Number	797	-756	S	H-29P7		
Series / Basic Part No.	797 High-temperature ThermaRex Series 79 crimp-contact rectangular					
Connector Type	-756 = Plug -757 = Receptacle					
Contact Type	S = Socket (for -756 Plug connectors) P = Pin (for -757 Receptacle connectors)					
Insert Arrangement	Per 799-009. See insert arrangement tabl	es belov	W	-		

- Service rating up to 300°C
- Vibration-resistant jackpost coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction

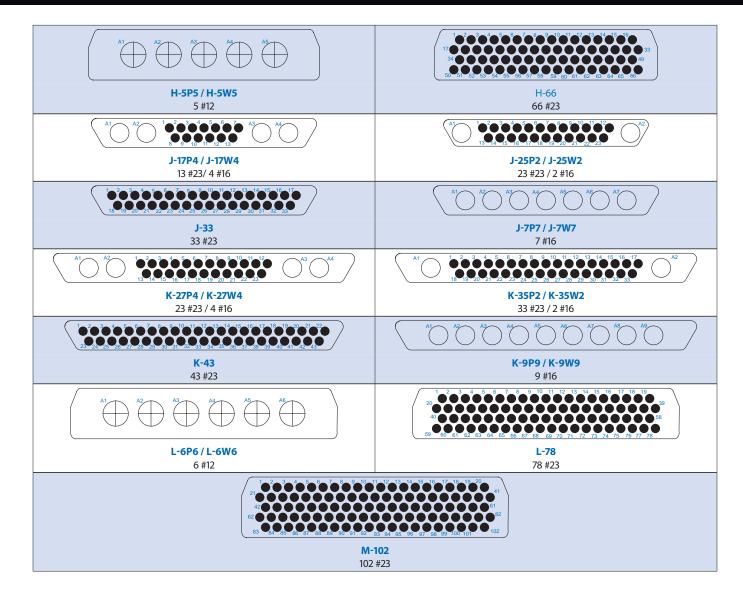




HIGH-TEMPERATURE TOLERANT

ThermaRex HT Series 79 Micro-D Connectors with Micro-Crimp Contacts

How To Order / Contact Arrangements



MATERIAL / FINISH NOTES

Housing, Float Mount Hardware, Guide Socket - Stainless Steel / Passivated Pin and Socket Contact - Copper Alloy / Gold Plated Socket Hood - Stainless Steel / Passivated Insulators - High Grade Ceramic / N/A Grommet and Interfacial Seal - High Temperature Silicone / N/A Retainer Clip Stainless Steel / N/A

EMI Spring - Stainless Steel / Gold Plated

ELECTRICAL PERFORMANCE

Contacts: Size 23 = 5 Amps Max. / Size 16 = 13 Amps Max. / Size 12 = 23 Amps Max. DWV - 500 Vac, with 5 Milliamperes Max.leakage Insulation Resistance Resistance - 5,000 Megohms Max.

Operating Temperature: -65°C to +300°C

BLIND MATE MISALIGNMENT ALLOWANCE

Shell Sizes A, B, C, D, E, F, G, J, K: ±.040 (1.02) Allowable misalignment from centerline Shell Sizes H, L: ±.040 (1.02) Allowable misalignment from centerline ±.050 (1.27) allowable misalignment from centerline



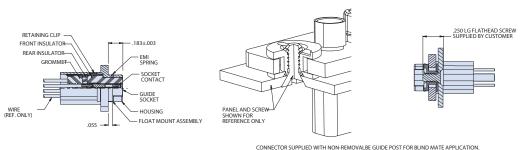
HIGH-TEMPERATURE TOLERANT

ThermaRex HT Series 79



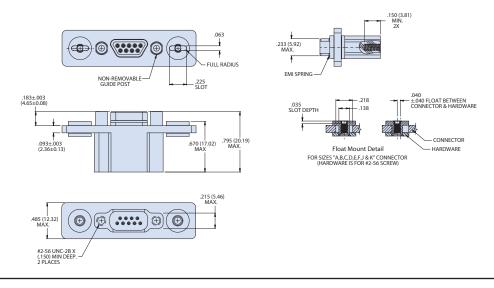
High-Performance Crimp-Contact Micro-D 797-756 Plug Details

CROSS-SECTIONAL VIEW AND HARDWARE

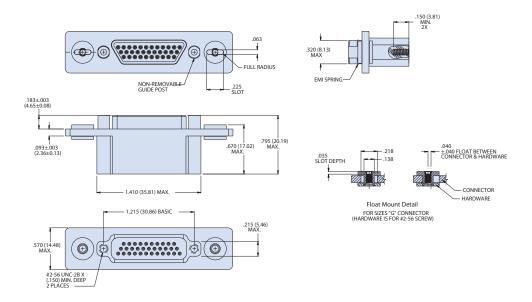


OAT MOUNT BUSHING HAS SHELL SIZES "M", "L" & "H" WITH #4-40 UNC-2B THREAD. ALL OTHER SIZES HAVE #2-56 UNC-2B.

SHELL SIZES A, B, C, D, E, F, J, K



SHELL SIZE G



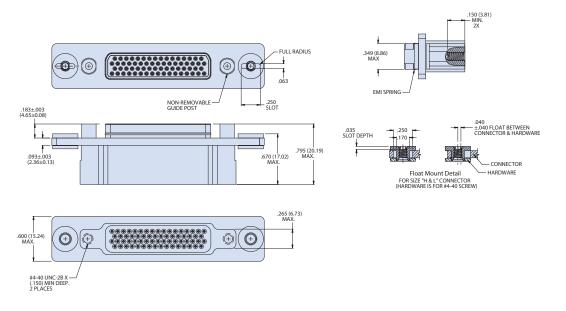


HIGH-TEMPERATURE TOLERANT **ThermaRex HT Series 79**

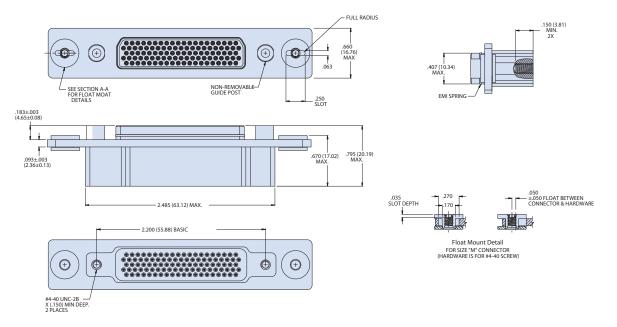


High-Performance Crimp-Contact Micro-D 797-756 Plug Details

SHELL SIZES H AND L



SHELL SIZE M





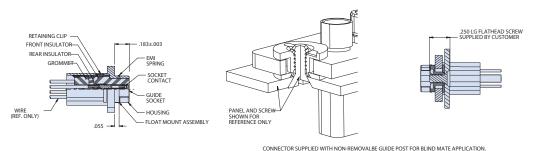
HIGH-TEMPERATURE TOLERANT

ThermaRex HT Series 79



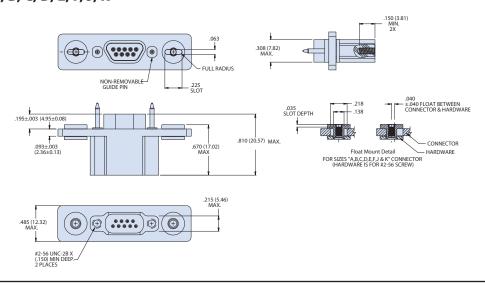
High-Performance Crimp-Contact Micro-D 797-757 Receptacle Details

CROSS-SECTIONAL VIEW AND HARDWARE

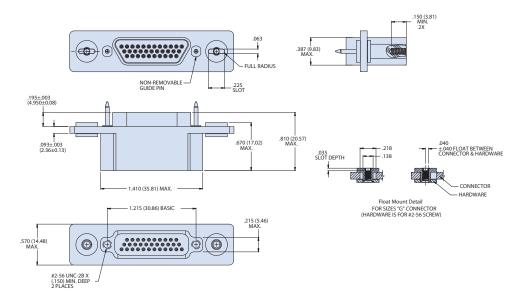


FLOAT MOUNT BUSHING HAS SHELL SIZES "M", "L" & "H" WITH #4-40 UNC-2B THREAD. ALL OTHER SIZES HAVE #2-56 UNC-2B

SHELL SIZES A, B, C, D, E, F, J, K



SHELL SIZE G





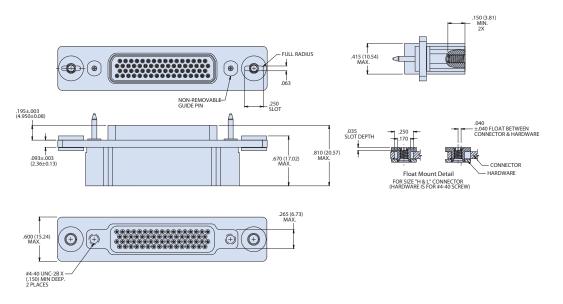
HIGH-TEMPERATURE TOLERANT

ThermaRex HT Series 79

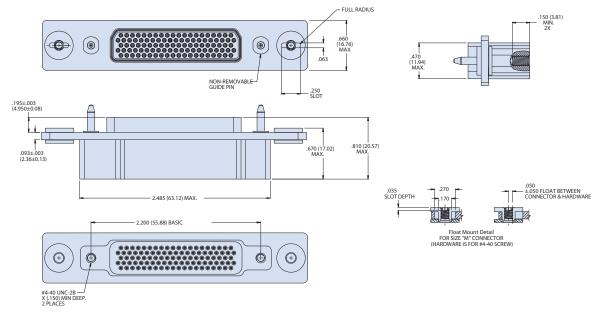


High-Performance Crimp-Contact Micro-D 797-757 Receptacle Details

SHELL SIZES HAND L



SHELL SIZE M





 \bigcirc lass sealed penetrators and feedthroughs provide sealed interconnect solutions If or 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 10⁻⁷ 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 10⁻⁸ sccHe/ sec @ 1 atmosphere differential

MULTI-PIN AND SINGLE-PIN PENETRATORS, RECEPTACLES, AND FEED-THRUS

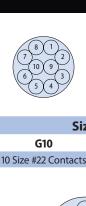


DOWNHOLE HTHP

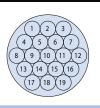
High Pressure/High Temperature Penetrators



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







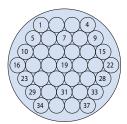


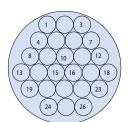


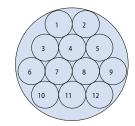


Size	e G		Sizo	e K	
G10	G8	K19	K14	K4	KC6
0 Size #22 Contacts	8 Size #20 Contacts	19 Size #22 Contacts	14 Size #20 Contacts	4 Size #16 Contacts	One 75 Ohm Coax, 6 #22

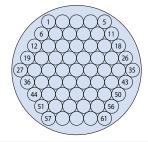


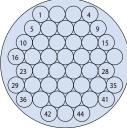


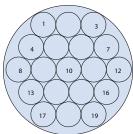


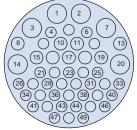


Size L		Size M	
L9	M37	M26	M12
9 Size #16 Contacts	37 Size #22 Contacts	26 Size #20 Contacts	12 Size #16 Contacts
(1) (5) (1)	1 4	1 3	$\begin{pmatrix} 1 & 2 & 7 \\ 3 & 0 & 0 & 6 \end{pmatrix}$

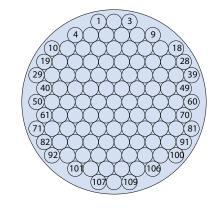


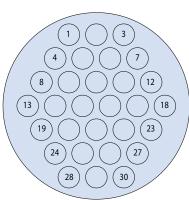


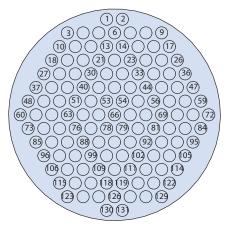




	061 044 019 0X49			
O61	044	019	OX49	
61 Size #22 Contacts	44 Size #20 Contacts	19 Size #16 Contacts	49 Contacts 6 #16 • 9 #20 • 34 #22	







Size Q		Size R				
Q109 Q30		Q131				
109 Size #22 Contacts	30 Size #16 Contacts	129 Size #22 Contacts				



Well-Master® 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°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™ 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 PCB Header

+260°C Cable Connector



SERIES GHTM WELL-MASTER 260°

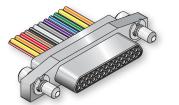
Downhole Micro-D Connector



Reference information / insert arrangements

In addition to extreme high temperature tolerance, and demating resistance to vibration and shock, the Glenair Well-Master™ 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.

High Temperature Micro-D with insulated Wire Pigtails

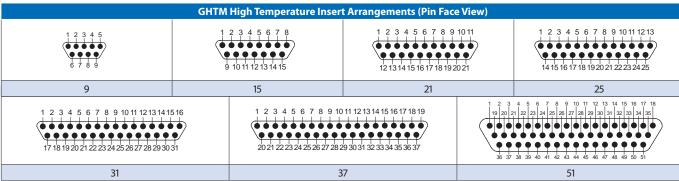












Mating face of pin connector. Socket connector contact numbers are reversed.









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[™] 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)	4 – #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	/ P -l	Integr	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
	Co Comments	
Socket	Socket	Socket

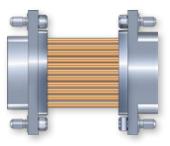


SERIES GHTM WELL-MASTER 260° **Downhole Micro-D Connector**



Back-to-back cable assemblies Well-Master and right-angle PCB headers

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								
Contact Type	GP - Pin Connector Both Ends GS - Socket Connector Both Ends CS - Pin Connector to Socket Connector								
Wire Gage (AWG)	4 - #24				-				
Wire Type	T - PTFE/Polyimide Insulated Nickel Coated Copper					,			
Wire 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	Jackp	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	P	RA	P	-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						



Designed for safe operation in petrochemical refineries, oil & gas drilling platforms, and other explosion zone applications, the Glenair ITS-Ex series connector is optimized for life-of-system durability and reliability. Qualified by the globally-recognized IEC and IECEx standards bodies, the connector series is suitable for use in application areas where flammable gases and vapors are present as a normal condition of operation (group IIC) and with temperature classes T6 and T5, zones 1 and 2; and for applications where potentially flammable dust is present as a normal condition of operation (group IIIC) and with temperature classes T80°C and T95°C in zone 21 and 22.

Series ITS-Ex is designed for easy and repeatable termination of armored and unarmored cables built to IEEE 45, IEC, BS, DIN, and JIC standards. A full range of power and signal contacts, from size #16 to size #0 in over 40 insert arrangements are available to address all common voltage, wire size and connector service class ratings.

Special Ex design attributes of the series include an integral labyrinth flame path cooling zone, 2-part epoxy potting well, fixed in-line receptacles for attachment of cables to cable management brackets and trays, set screw (grub screw) secured protective safety covers, and durable life-of-system Ex marking labels.



- Grub nuts (set screw) to lock coupling nut
- Long plug barrels provide cooling zone
- Labyrinth gas exit port/ pathway augments cooling
- Accessorv accommodation for potted glands
- Increased wall thickness
- Stainless steel and **Marine Bronze available**



SERIES ITS-EX **IECEx/ATEx Qualified Explosive Zone Connectors**



RANGE OF APPLICATIONS

- Automotive refueling or petrol stations
- Oil & gas extraction
- Oil refineries
- Gas pipelines and distribution
- Chemical processing plants
- Aircraft refuelling and hangars
- Transportation
- Pharmaceuticals
- Food processing
- Metal surface grinding
- Sugar refineries
- Grain handling and storage
- Coal mining









ATEX Marking

(€ 2460 ⟨Ex⟩

II 2 G Ex db IIC T6, T5 Gb II 2 D Ex tb IIIC T80°C, T95°C Db IP68 $-40^{\circ}\text{C} \le \text{Tamb} \le +40^{\circ}\text{C} (T6, T80^{\circ}\text{C}) \text{ or } +55^{\circ}\text{C} (T5, T95^{\circ}\text{C})$

IECEx Marking

Ex db IIC T6, T5 Gb Ex tb IIIC T80°C, T95°C Db IP68 -40°C ≤ Tamb ≤ +40°C (T6, T80°C) or +55°C (T5, T95°C)



Glenair ITS-Ex series encompasses both in-line cable plugs and receptacles as well as fixed bulkhead-mountable designs



harsh-environment applications

lenair manufactures connectors qualified to VG96929, VG95234 and VG95328 standards. These connectors are mostly used in harsh-environment military applications for ground vehicles and ground systems. Our new Marine Bronze version increases the level of robustness of these connectors to be successfully used in all severe environment navy installations, as well as off-shore platforms, sea ports, geological and oceanographic applications.



- Marine bronze alloy for superior corrosion resistance in seawater and other harsh environments
- Ideal for shipboard and offshore drilling applications
- Available in Series ITS (5015 reverse-bayonet), Series IPT (26482), Series IGE (Single-pole high-power VG96929) and Series IT (5015 threaded)
- IP67 environmental sealing in mated condition; IP68 available
- Hundreds of available contact arrangements for both power and signal as well as hybrid applications



SEACROW MARINE BRONZE **Topside / Shipboard Environmental Connectors**



Series overview

ITS-MB MIL-C-5015 TYPE REVERSE-BAYONET CONNECTORS





VG95234 Equivalent Marine Bronze Series

ITS-MB connectors are compliant with VG95234, using all the same insert arrangements available in the standard ITS Reverse Bayonet Connectors catalog. Typically they are used for power and signal transmission, with wires from 26 AWG to 4/0. A wide variety of backshells allow the ITS-MB to accept jacketed cables, single or multi-poles, with or without RFI/EMI shielding, conduits with PG or metric thread. IP67 protection is the standard performance. IP68 on request.

IT-MB MIL-C-5015G TYPE THREADED CONNECTORS





MIL-C-5015 Compliant Marine Bronze Series

IT-MB is a threaded connector compliant with the MIL-DTL-5015 standard. All the electrical characteristics are available in the IT standard catalog. IT-MB family is a threaded version mostly used for power and signal, with IP67 standard performance sealing.

IPT-MB MIL-DTL-26482 TYPE HIGH DENSITY BAYONET CONNECTORS





VG95328 Equivalent Marine Bronze Series

IPT-MB connectors are the choice for reliability when 20-16 AWG signal cables are used. The insert arrangements as well as the electrical characteristics are detailed in the IPT IPT-SE catalog. Backshells suitable for EMI shield terminations and heat shrink boots are also available.

The receptacle is also available with PCB contacts. IP67 protection is the standard performance. IP68 on request.

IGE-MB MIL-C-5015 TYPE REVERSE-BAYONET SINGLE-POLE POWER CONNECTORS





VG96929 Equivalent Marine Bronze Series

IGE-MB High Power Single Pole Connectors are used with cables from 16 to 240

These connectors achieve high-performance working current and peak current, and are ideal for engines, power supplies, and power distribution boxes. Several backshells are available, either straight or 90° elbows for the most reliable cable accommodation. See the VG96929 catalog for detailed electrical characteristics. IP67 protection is the standard performance. IP68 on request.



for use

lenair overmolded cable assemblies may be supplied with materials such as Viton®, UDuralectric™, polyurethane, EPDM, Santoprene™, or polyamide to optimize harsh-environment performance for the Oil & Gas industry. Assemblies may be specially shielded with conductive overbraiding for superior mechanical protection, flexibility, and resistance to RFI and other forms of electromagnetic interference. Fast turnaround and quality fabrication in

overmolded cable assemblies

depends on capital investment

in tooling, injection molding

equipment, planetary wire stranders, and braiding machines.

> Rugged point-to-point overmolded assembly with

ADVANTAGES OF OVERMOLDING

- Waterproof sealing
- Robust mechanical protection
- Permanent protection of terminations
- **■** Resistance to chemicals and fuels
- No induced cold flow stress
- Electrical isolation and insulation
- Reduced wear damage
- Flexible routing and cable entry
- Repeatable assembly performance



TURNKEY Interconnect Cable Assemblies



with environmentally-resistant **Duralectric™** jacketing

DURALECTRIC™ APPLICATION AND MATERIAL PROPERTIES

Duralectric[™] is high-performance elastomeric material for use as wire insulation, cable jacketing, conduit jacketing, cable/conduit overmolding, and molded boots.

Perfectly suited for immersion, chemical or caustic fluid exposure, temperature extremes, UV radiation and more.

- Service temperature range: -65°C to 225°C
- Duralectric K (Kelvin) range: -110° to 225°C
- Fire-resistant, Low Smoke-Zero Halogen (LSZH)
- Mil-aero and industrial fluid-resistant
- Accelerated UV/sunlight resistant, 53 year equivalent exposure
- Ozone resistant IAW ASTM D1149
- Moldable and extrudable

DURALECTRIC™ APPLICATION SHOWCASE

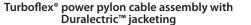


Bulk jacketed Duralectric™ cable with TurboFlex® flexible power cabling for harsh-environment power applications with cable routing challenges



Shipboard application with Duralectric™ jacketing and overmolding







environmental commercial application



Turnkey connectorized flex/PCB circuit assemblies incorporating Glenair's broad range of innovative small form-factor circular and rectangular PCB connector solutions. All terminations backpotted for compliance with conformal coating processes.

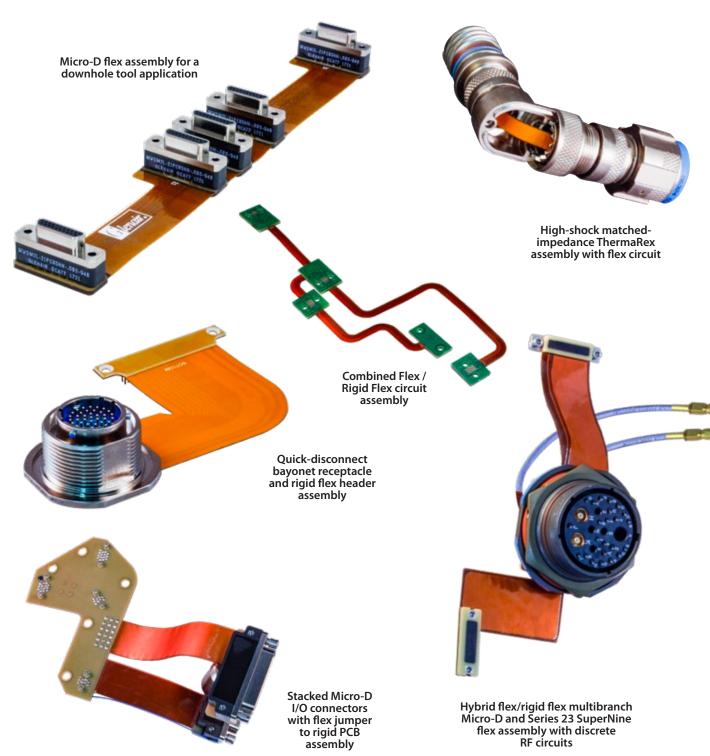
GLENAIR SIGNATURE PCB CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES





TURNKEY PCB/Flex Circuit Assemblies with Glenair signature PC tail connectors

MULIBRANCH FLEX / PCB ASSEMBLIES WITH GLENAIR SIGNATURE CONNECTORS





POLYMER AND METAL-CORE

Conduit Systems The flexible wire protection and cable

routing alternative to standard jacketed cables

nonduit wire protection systems for high-reliability applications must be able to withstand extreme environments—from immersion in harsh chemicals, to temperature extremes and numerous flex cycles—without breakdown or failure. Glenair conduit systems are rigorously engineered to meet the exacting specifications of both commercial and military—geophysical and oceanographic environments.

Corrosion resistant, flexible polymer-core materials are available in a wide variety of materials to suit any application: Annular material choices include: Kynar, PVDF and G-FLEX Siltem, helical choices include ETFE, FEP, PFA, PTFE, and PEEK plus AS81914 /1 - 11 qualified materials and configurations.

Metal-core versions are specified for extreme crush resistance and optimal EMI shielding. The helically-wound metal conduit provides extremely high levels of EMI protection across all radiation fields and frequencies. Stainless steel versions are often specified for environments subject to temperature extremes such as geophysical applications.



- Hermetically sealed, flexible metal-core conduit for interconnect applications
- Lightweight, flexible helical and annular polymer-core materials and easy to install fittings, transitions and adapters
- Turnkey, factoryterminated assemblies for industrial applications



SERIES 72, 73 AND 74

Convoluted Tubing and Conduit



Wire protection conduit and cable routing fittings selection guide

SERIES 72 CONVOLUTED TUBING PRODUCT SELECTION GUIDE









Convoluted Tubing

Tubing

Assemblies

Sentry system

Easy-to-Install **Guardian system**

SERIES 74 CONVOLUTED TUBING PRODUCT SELECTION GUIDE







connector

Easy Assembly Hat Trick System



Super Durable Internal Braid System



Ultra Lightweight **Composite Hummer Nut System**

SERIES 75 METAL-CORE HELICALLY-WOUND CONDUIT PRODUCT SELECTION GUIDE







Low-Profile **RP Plus** System



Heavy-Duty Environmental Metal System



Heavy-Duty Environmental Conduit System



Reduce package size, weight, and labor with turnkey factory assemblies

- Glenair can design, build, terminate—and even pre-wire—turnkey conduit wire routing solutions.
- Certified factory assemblers and calibrated tooling create betterperforming systems.
- Simple point-to-point or complex multi-branch.

Hydrostatic Test Lab

GLENDALE, CALIFORNIA

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



LARGE PRESSURE VESSELS: Built to

accommodate complete

cable assemblies, mated

connectors, and customer-

supplied subassemblies

DISCRETE
CONNECTOR
TESTING:
All Glenair
high-pressure
interconnects
are subjected
to 100%
inspection
and test



1. Cable and subassembly staging

3. Hydrostatic test lab control

room

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.

4. Production connector staging

5. Small connector pressure test bunker

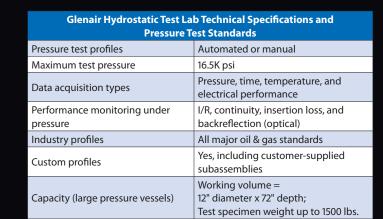


SeaKing and SuperG55 QUALIFICATION
TESTING: Both Glenair Series 70 SeaKing and
SuperG55 rugged dry-mate subsea connectors
have been tested and qualified to their 10K
psi pressure rating—open-face and mated—in
Glenair's state-of-the-art hydrostatic test lab.
Additional testing included mating cycles, salt
spray, and electrical continuity.



TECHNICAL
STAFF:
Knowledgable
and trained
subsea specialists
perform both
in-house product
qualification
testing, as well
as customer
subassemblies





2. Large cable and

subassembly pressure tes bunker



INTERCONNECT SOLUTIONS

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