

SERIES 707 SEAKING
10KSI Subsea Connectors
with SpeedMaster™ 10G high-speed contacts



707-0408 Bulkhead Connector Receptacle



SeaKing 700 is an innovative 10K PSI rated 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. Series 707 SeaKing BCR connectors incorporate a SpeedMaster 10G pin module in a Size L or Q shell, or in a hybrid arrangement with signal contacts in a Size R shell.

Part Number Development							
Sample Part Number	707-0408	R31	-Z1	P	N	-P1	1147
Series and Shell Style	707-0408 = SeaKing Bulkhead Connector Receptacle						
Shell Size/Insert Arrangement	See Insert Arrangements Table						
Shell Material	Z1 = Stainless Steel TC = Titanium						
Contact Style	S = Socket P = Pin A = Contactless Pin B = Contactless Socket						
Keyway Position	See Keyway Polarization Table						
Cable Size	See Cable Size Table						
Color Band	1147 = Color Band per Polarization table Blank = No Color Band						

Contact Pinout	
	Pin Out
	Location Color
	1 Orng/Wht
	2 Orange
	3 Blu/Wht
	4 Blue
	5 Brwn/Wht
	6 Brown
	7 Grn/White
	8 Green

Insert Arrangements		
L1	Q1	R31

NOTES

1. Standard seaking packaging box. Loose components bagged and tagged and pressed in snug with packaging foam.

2. Material / finish:
 - Barrel: see part number development
 - Coupling nut: marine bronze for stainless steel barrel; titanium for titanium barrel.
 - Contacts: copper alloy, gold plated.
 - Insert: rigid dielectric
 - Set screws: stainless steel for stainless steel barrel; titanium for titanium barrel.
 - O-rings: nitrile rubber. O-ring kits are available for each connector size. Refer to drawing 709-026 for details.
3. Electrical:
 - Dielectric withstanding voltage: 500 vac.
 - Insulation resistance: 5,000 megohms min at 500vdc.

4. Pressure ratings
 - Mated condition: 10,000 PSI
 - Open face: 8,000 PSI

5. Compatible with AFT end accessories such as 709-003 PBOF backshells.

6. Retractable coupling nut accommodates o-ring servicing.

7. Mates with 707-0408 SeaKing receptacle.

8. Double o-ring sealing in mated condition.

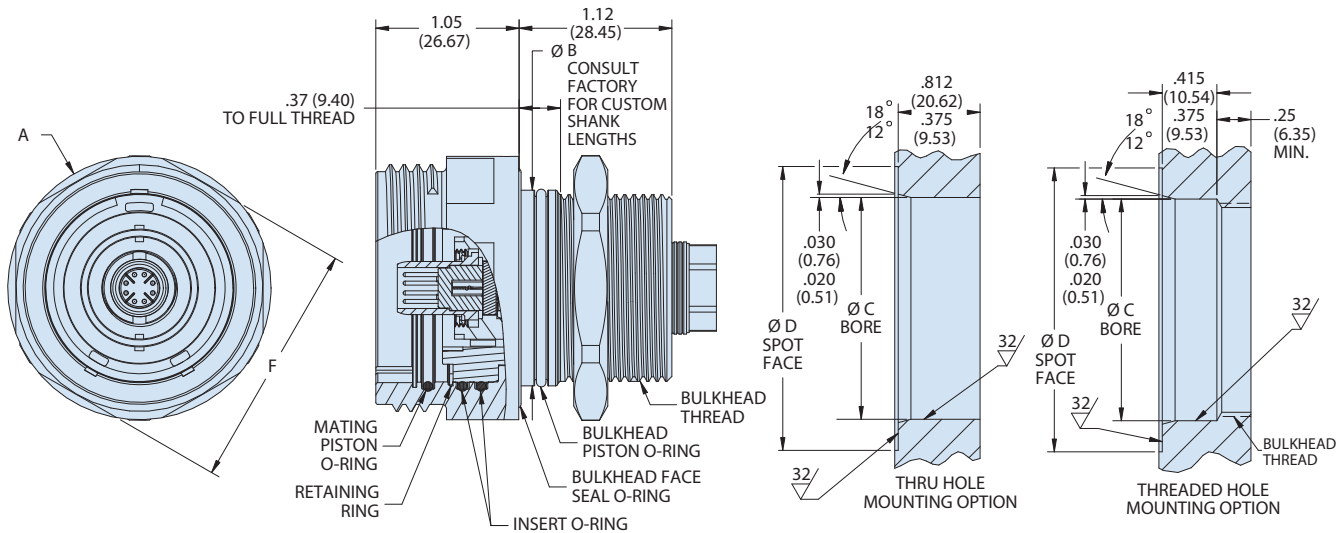
9. These cables are not sealed or pressure rated.

10. L1 signal ground is common with shell ground.

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Bulkhead Size											
Size	ØA	ØB +.000 -.001	Hex Flats F	Bulkhead Face Seal O-Ring	Bulkhead Piston O-Ring	Mating Piston & Insert O-Ring	Retaining Ring	ØC +.002 -.000	ØD (Min)	Bulkhead Thread	Bulkhead Mounting Torque For Dry Threads (Ft-Lbs)
L	1.31 (33.3)	.935 (23.7)	1.188 (30.2)	2-022	2-019	2-018	N/A	.937 (23.8)	1.33 (33.8)	.875-20 UNEF	35
Q	1.93 (49.0)	1.435 (36.4)	1.813 (46.1)	2-030	2-027	2-028	VH-137-S16	1.437 (36.5)	1.95 (49.5)	1.375-16 UN	50
R	2.06 (52.3)	1.623 (41.2)	1.938 (49.2)	2-031	2-029	2-029	VH-150-S16	1.625 (41.3)	2.08 (52.8)	1.500-16 UN	60

Polarization			
Position Code	A	B	Color Band (Optional)
N	150	210	Blue
A	75	210	Yellow
B	95	230	Orange
C	140	275	Red

Cables*						
Cable P/N	Cable Category	Cable Construction	Wire Gage	Cable Ø	Cable Size Option	Assembly Instructions
963-066-24	Cat 6A	S/FTP	24	.260 (6.60)	2	AI85082
963-066-26	Cat 6A	S/FTP	26	.238 (6.05)	5	
963-075-24	Cat 6A	SF/UTP	24	.265 (6.73)	2	AI85226
M24643/77-02UO	Cat 6A	SF/UTP	23	.375 (9.52)	P1	

*Consult factory for use with other cable

