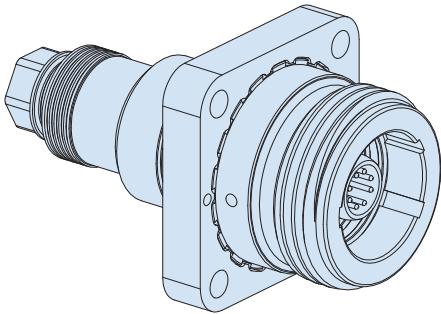


SERIES 707 SEAKING
10KSI Subsea Connectors
with SpeedMaster™ 10G high-speed contacts



707-0409 Flange 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 FCR 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	707-0409	-R31	-Z1	P	N	-P1	-1147
Series and Shell Style	707-0409 = SeaKing Flange 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. Pressure ratings:
 - Mated condition - 10,000 psi
 - Open face - 8,000 psi

2. Double o-ring sealing:
 - Flange and piston o-rings to bulkhead
 - Dual piston o-rings at insert
 - Flange and piston o-rings in mated condition

3. Electrical:
 - Dielectric withstanding voltage: 500 vac.
 - Insulation resistance: 5,000 megohms min at 500vdc.

4. Material composition:
 - Shell - see part number development
 - Contacts - inconel x750/gold plate
 - Insert body - 316 stainless
- Insulator - fused vitreous glass
 - O-rings - nitrile rubber, 90 shore a durometer. O-ring kits are available
 - For each connector size. Refer to drawing 709-026 for details.
 - Speedmaster insulators: rigid dielectric.

5. Mates with 707-0407 series SeaKing plug.

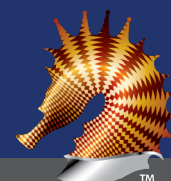
6. For other mounting options/patterns, contact glenair.
 - Standard materials:
 - Z1: 2507 super duplex shell with 316 stainless steel nut and washer
 - TC: titanium shell, nut, and washer
 - Alternative materials are available by request.

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

8. These cables are not sealed or pressure rated.

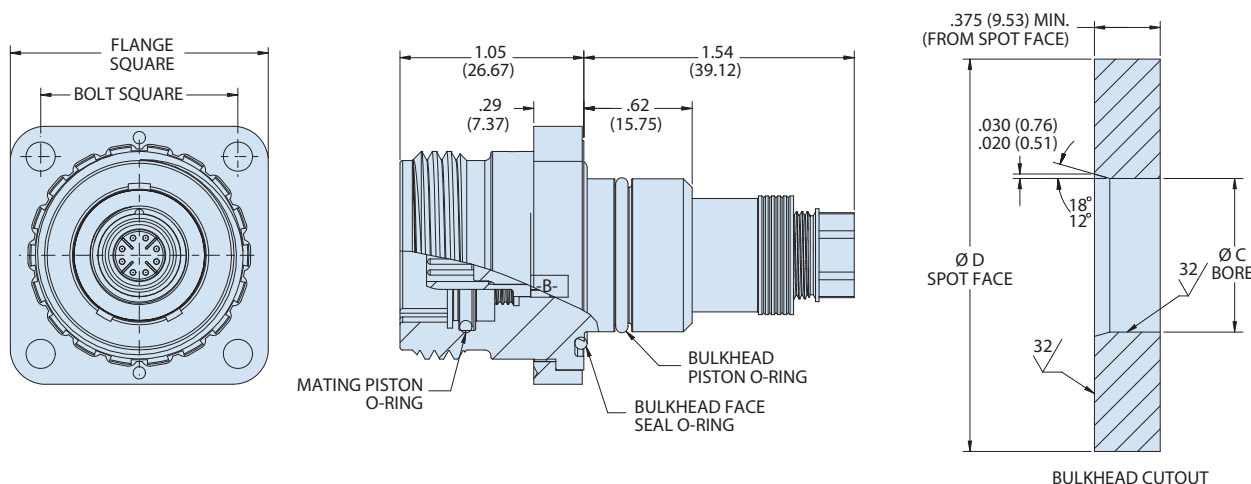
9. L1 signal ground is common with shell ground

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



SeaKing
SEVEN HUNDRED

707-0409 Flange Connector Receptacle



Bulkhead Size												
Shell Size	Flange Sq.	Bolt Sq.	Flange Screws	Flange Screw Torque (Inch-Lbs)	Bulkhead Face Seal O-Ring	Bulkhead Piston O-Ring	Mating Piston & Insert O-Ring	Retaining Ring	Ø B +.000 -.001	Ø C +.002 -.001	Ø D Min. Spotface <.005	Ø D Min. Spotface >.005
L	2.18 (55.37)	1.662 (42.21)	#10-24	24	2-021	2-018	2-018	VH-137-S16	.873 (22.17)	.875 (22.23)	1.330 (33.78)	2.235 (56.77)
Q	2.18 (55.37)	1.662 (42.21)	#10-24	24	2-029	2-026	2-028	VH-137-S16	1.373 (34.87)	1.375 (34.92)	1.955 (49.66)	2.895 (73.53)
R	2.30 (58.42)	1.768 (44.91)	#10-24	24	2-030	2-028	2-029	VH-150-S16	1.498 (38.05)	1.500 (38.10)	2.080 (52.83)	3.055 (77.60)

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

