

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



707-0407 10 KSI rated subsea environment



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 CCP connectors incorporate a SpeedMaster 10G socket 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	707-0407	-R31	-T	-Z1	S	N	-P1	-1147
Series and Shell Style	707-0407 = SeaKing Cable Connector Plug							
Shell Size/Insert Arrangement	See Insert Arrangements Table							
Shell Style	B = Bandporch                      T = Index Teeth							
Shell Material	Z1 = Stainless Steel                      TC = Titanium							
Contact Style	S = Socket                      P = Pin							
Keyway Position	See Polarization Table							
Cable Size	See Cables Table							
Color Band	1147 = Color Band per Polarization Table    Blank = No Color Band							

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

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

6. Retractable coupling nut accommodates o-ring servicing.

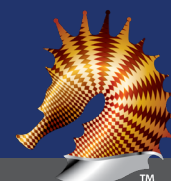
7. Mates with 707-0408 SeaKing receptacle.

8. Double o-ring sealing in mated condition.

9. These cables are not sealed or pressure rated.

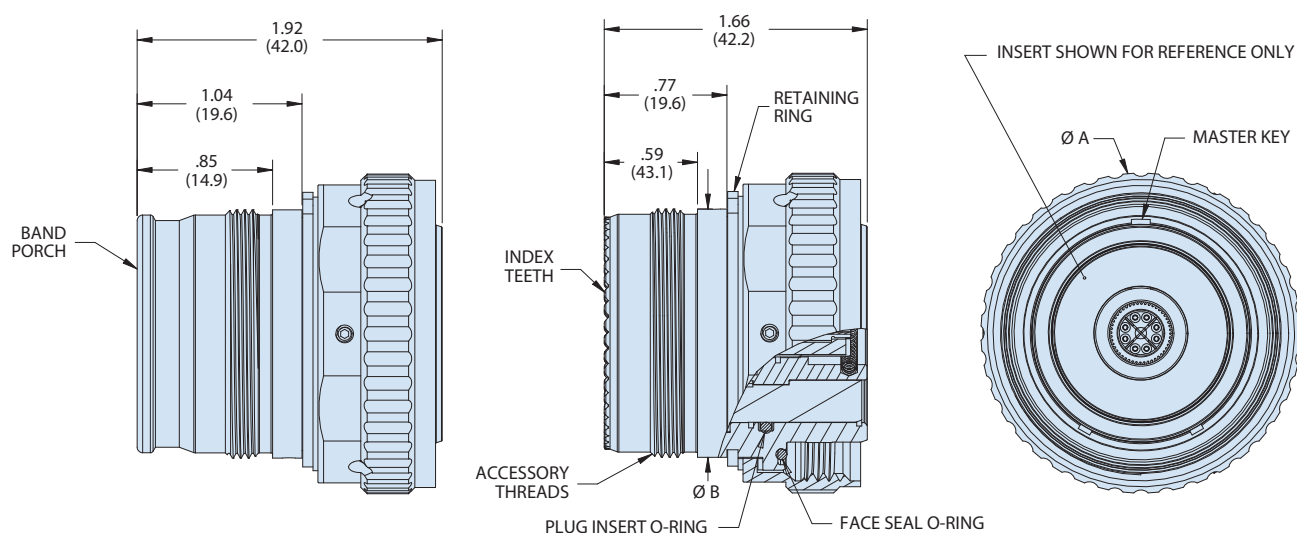
10. L1 signal ground is common with shell ground.

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SeaKing  
SEVEN HUNDRED

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Bulkhead Size							
Size	ØA	ØB	Retaining Ring	Face Seal O-Ring	Plug Insert O-Ring	Accessory Threads (Un-2a)	Mating Torque (Ft-Lbs)
L	1.390 (35.2)	.938 (23.8)	709-063-093	2-019	N/A	.9375-28	12
Q	2.014 (51.2)	1.562 (39.7)	709-063-156	2-028	2-024	1.5625-20	15
R	2.139 (54.3)	1.688 (42.9)	709-063-168	2-029	2-026	1.6875-20	15

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	
963-139**	Cat 6A	S/FTP	24	.650 (16.51)	P1	AI85225
963-173-24**	Cat 6A	S/FTP	24	.675 (17.15)	P1	AI85225

\*Consult factory for use with other cable

\*\*Pressure-rated

