

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
	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

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.

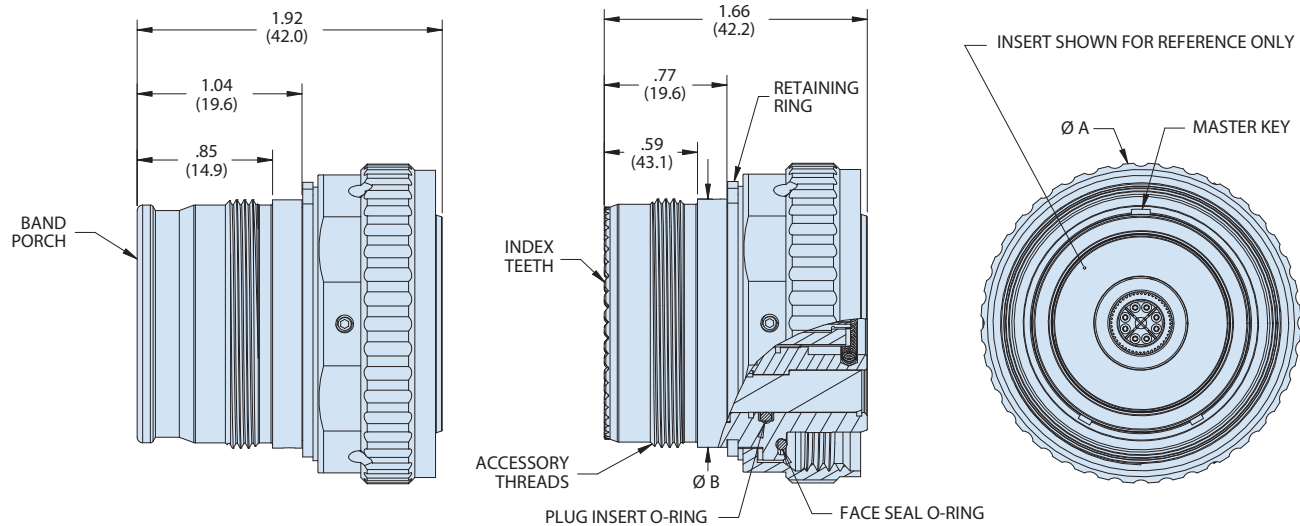
9. These cables are not sealed or pressure rated.

10. L1 signal ground is common with shell ground.

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



707-0407 10 KSI rated subsea environment



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	AI85225
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

