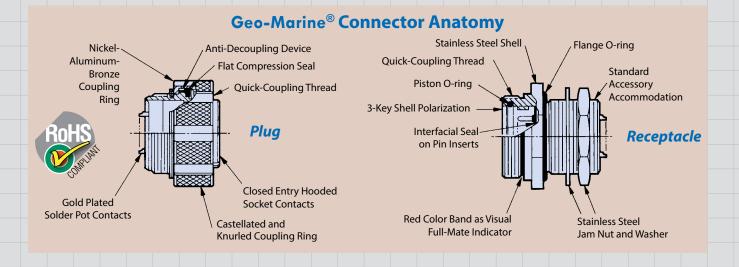


Series 22 Geo-Marine® Specifications

		Performai	nce Characteristics			
Hydrostatic Pressure Rating:			5,000 PSI (fully mated)			
Operating Temperature:			-65°C to +125°C			
Durability:			500 Cycles of mate/demate			
Class H Hermetic Reco	eptacles					
Open-Face Pressure Rating			1,000 to 5,000 PSI			
Hermeticity			Less than 1 X 10 ⁻⁶ sccHe/second @1 atmosphere			
Current Rating						
Current Rating Env		Enviro	onmental	Hermetic		
Contact Size 22		5	5 amps 3 amps		3 amps	
Contact Size 20		7.5	7.5 amps		5 amps	
Contact Size 16		13	13 amps		10 amps	
Contact Size 12		23	23 amps		17 amps	
ervice Rating						
		ggested Operational Voltage (Sea Level)			Test Voltage (Sea Level)	
Contact Size	AC(RMS)		DC			
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		

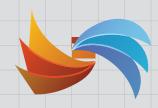


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Series 22 Geo-Marine® Specifications





Geo-Marine®

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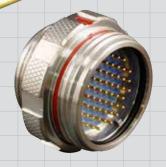
Materials/Potting					
Item	Material	Potting			
Connector Shells	CRS 316 SAE-AMS-QQ-S-763				
Protective Covers	CRS 316 SAE-AMS-QQ-S-763				
Solder Mount Receptacle	CRS 316 SAE-AMS-QQ-S-763				
Plug Coupling Nut	Marine Bronze SAE AMS-4640				
Molding Adapters and Backshells	See individual product pages				
Insulators, Class "E"	Epiall 1908, Diallyl Phthalate or Hysol CP2-4289	Stycast 2651/Catalyst 9			
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 Peripherial Seals	Flourosilicone Rubber MIL-DTL-25988				

Glenair can design and fabricate overmolded

Geo-Marine® cable assemblies featuring

Viton® chemical resistant materials—
terminated and tested to
deliver advanced levels
of sealing and
durability.





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.

Catalog Notes

For all parts in this catalog:

- 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 \pm .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 = $\pm 5^{\circ}$

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