

Design

streamers.

Geo-Marine® plugs are equipped with arctic coupling nuts—made from marine-grade naval bronze—with easy-to-grip castellated knurling and a powerful ratcheted anti-decoupling mechanism which guarantees reliable mating and demating performance in even the harshest environments. Supplied as discrete connectors—or more typically in build-to-print overmolded cable assemblies—the Series 22 Geo-Marine® has delivered reliable, proven performance for over four decades and is an excellent interconnect solution for high-pressure, harsh-environment applications.

submersibles and ROV's, offshore-oil drilling equipment, seabed exploration,

pipeline inspection systems, well monitoring equipment, and digital seismic

- castellated knurling
- Available Viton® overmolded cable assemblies



SERIES 22 5000M / 5000 PSI Shallow Water Application



Hermetic/high-pressure environmental connectors



photo: Seismometer, geophysical observatory, Neumayer Station, Antarctica by Dr. Hannes Grobe



Anti-Galling Arctic Coupling Nuts

One of the most valuable features of the Series 22
Geo-Marine® from the user's perspective is the specially-designed castellated and knurled coupling nut which facilitates rapid mating and demating in field applications. Single-start, stub Acme threads reduce thread fouling and binding, and are supplied with an anti-vibration/anti-decoupling device which prevents accidental loosening or decoupling. Plugs contribute to high-pressure sealing, up to 5,000 PSI in the mated condition, by means of rugged and durable interfacial and peripheral seals.

Range of Offerings

Series 22 Geo-Marine® connectors are supplied with either fused-glass ("H" hermetic class—up to 5,000PSI open face rating) or high grade thermoplastic ("E" environmental class—5,000PSI in the mated condition) insulators. Both classes of connectors are supplied with rugged, corrosion-resistant materials. Low-profile and scoop-proof cable plugs and receptacles, as well as bulkhead feed-throughs are available. Specially-designed cable sealing backshells as well as EMI/RFI shield termination backshells and environmentally-sealed protective covers complete the range of discrete prduct offerings. 35 Contact Arrangements (contact sizes #12, #16, #20 and #22) are tooled and fully available.

Receptacle Configurations: High-pressure environmental ("E") and hermetic ("H") class receptacles are available for cable as well as box applications. Rugged o-ring piston seals located inside the receptacle barrel contribute to reliable high-pressure sealing in the mated condition. Glenair is able to supply Geo-Marine® customers with a wide range of receptacle configurations for unique requirements including low-profile and scoop-proof designs, pin and socket contact designs, solder cup and printed circuit board termination, unique flange shapes and mounting configurations, in-line cable receptacles, connector savers and gender changers.

HIGH-PRESSURE ENVIRONMENTAL AND HERMETIC RECEPTACLE CONFIGURATIONS



Rear Panel Mount . Jam Nut



In-Line (CCP)



Square Flange (FCR)



Solder-Mount



Bulkhead Feed-Through