

Series 22 Geo-Marine® Connectors Alternate Keyway Positions



| Contact Arrangements | | | | | | |
|----------------------|-------------------|----------------|-----------------------|----|----|----|
| SHELL SIZE | SERIES 22 PATTERN | SERVICE RATING | CONTACT SIZE/QUANTITY | | | |
| | | | 22 | 20 | 16 | 12 |
| 10 | 10-2 | II | | | 2 | |
| | 10-04 | I | | 4 | | |
| | 10-06 | I | | 6 | | |
| | 10-13 | M | 13 | | | |
| 12 | 12-08 | II | | | 8 | |
| | 12-10 | I | | 10 | | |
| | 12-22 | M | 22 | | | |
| 14 | 14-04 | II | | | | 4 |
| | 14-12 | II | | | 14 | |
| | 14-19 | I | | 19 | | |
| | 14-37 | M | 37 | | | |
| 16 | 16-06 | II | | | | 6 |
| | 16-19 | II | | | 19 | |
| | 16-26 | I | | 26 | | |
| | 16-55 | M | 55 | | | |
| 18 | 18-08 | I | | 8 | | |
| | 18-22 | II | | | 22 | |
| | 18-32 | I | | 32 | | |
| | 18-66 | M | 66 | | | |
| 20 | 20-11 | II | | | | 11 |
| | 20-30 | II | | | 30 | |
| | 20-38 | I | | 30 | 8 | |
| | 20-41 | I | | 41 | | |
| | 20-79 | M | 79 | | | |
| 22 | 22-19 | II | | | | 19 |
| | 22-38 | II | | | 38 | |
| | 22-55 | I | | 55 | | |
| | 22-85 | M | 85 | | | |
| 24 | 24-48 | II | | | 48 | |
| | 24-61 | I | | 61 | | |
| | 24-100 | M | 100 | | | |
| | 24-128 | M | 128 | | | |

Alternate Keyway Positions

FACE VIEW RECEPTACLE

| SHELL SIZE DESIG. | N° | 1° | 2° | 3° | 4° |
|-------------------|----|----|----|-----|-----|
| 10 | 90 | 76 | 62 | 118 | 104 |
| 12 | 90 | 70 | 58 | 122 | 110 |
| 14 | 90 | 69 | 56 | 124 | 111 |
| 16 | 90 | 72 | 60 | 120 | 108 |
| 18 | 90 | 72 | 62 | 120 | 108 |
| 20 | 90 | 72 | 60 | 120 | 108 |
| 22 | 90 | 75 | 64 | 116 | 105 |
| 24 | 90 | 75 | 64 | 115 | 105 |

| Depth/Pressure Conversion | | | |
|---------------------------|---------|--------|----------|
| Feet | Meters | P.S.I. | Bar |
| 1 | .3 | .4 | .0296 |
| 10 | 3.1 | 4.3 | .2965 |
| 50 | 15.2 | 21.7 | 1.4962 |
| 100 | 30.5 | 43.3 | 2.9854 |
| 250 | 76.2 | 108.3 | 7.4670 |
| 500 | 152.4 | 216.5 | 24.9271 |
| 1,000 | 304.8 | 433.0 | 29.8543 |
| 1,500 | 457.2 | 649.5 | 44.7814 |
| 2,500 | 762.0 | 1082.5 | 74.6357 |
| 5,000 | 1524.0 | 2165.0 | 149.2715 |
| 10,000 | 3048.0 | 4330.0 | 298.5430 |
| 11,547 | 3519.35 | 5000.0 | 344.7379 |

Custom Contact Arrangements

Series 22 inserts may be tooled for alternative contact insert arrangements including variably sized electrical contacts—from size 12 to 22—as well as hybrid arrangements incorporating fiber optic, Co-ax and other contact types. Glenair has produced hundreds of custom arrangements beyond those shown in this catalog. Please contact your local Glenair representative, or the factory, for assistance.

| Materials / Finishes | | |
|----------------------------------|---|----------------------------------|
| ITEM | MATERIAL | FINISH |
| Connector Shells | CRS Alloy 316 SAE-AMS-QQ-S-763 | Passivate-ASTM A967 |
| Solder Mount Bulkhead Receptacle | CRS 316 SAE-AMS-QQ-S-763 | Nickel SAE-AMS-QQ-N-290, Class 2 |
| Insulators, Class "H" | Fused Vitreous Glass | None |
| Contacts, Pin Class "H" | Nickel-Iron Alloy 52 - MIL-I-23011, Class 2 | Gold/Ni AMS |
| Contacts, Socket | Beryllium Copper | Gold |
| Contacts, Socket Hood | CRS QQ-S-763, AISI 305 | Passivate-ASTM A967 |
| "O"-Rings | Nitrile (Buna-N) Rubber MIL-G-21569 | None |
| Interfacial & Peripheral Seals | Flourosilicone Rubber MIL-R-25988 | None |

Additional materials are available, including titanium and Inconel®. Consult factory for ordering information.

| Cable/Wire D.C. Resistance | |
|---------------------------------------|--------------------|
| Copper Conductors at Room Temperature | |
| AWG | Ohms per 1000 feet |
| 28 | 66.2 Max |
| 26 | 41.6 Max |
| 24 | 26.2 Max |
| 22 | 16.5 Max |
| 20 | 10.4 Max |
| 18 | 6.5 Max |
| 16 | 4.1 Max |
| 14 | 2.6 Max |
| 12 | 1.6 Max |

Metric dimensions (mm) are indicated in parentheses

