

280-031S float mount socket connectors for blind mating, crimp termination



280-031S HiPer-D socket connectors feature stainless steel floating bushings for blind mate applications. Attach to panel with #4-40 screws (not supplied with connector). Crimp, rear-releaseable size #20 or #22 contacts. Intermateable with standard M24308-type D-Subminiature connectors, the HiPer-D features a rugged machined aluminum shell and rubber grommet. Threaded holes on the rear of the connector allow attachment of HiPer-D EMI backshells. Contacts are packaged with connector. Terminate contacts with crimp tools purchased separately. Glass-reinforced thermoset epoxy insulators, copper alloy retention clips. Connector meets IP67 immersion requirement. 1000 VAC, 5 Amps (#22) or 7.5 Amps (#20).

B

| Ordering Information | | | | |
|--------------------------------|--|------|----|---|
| Sample Part Number | 280-031S | 2H26 | Z2 | G |
| Basic Part Number | 280-031S | | | |
| Shell Size-Contact Arrangement | Contact Arrangements are shown in the adjacent table | | | |
| Shell Finish | ME = Electroless Nickel (RoHS) MT = Nickel-PTFE (RoHS) JF = Cadmium with Yellow Chromate Z2 = Gold (RoHS) Z1 = Passivated Stainless Steel (RoHS) | | | |
| Mating Hardware | N = No Hardware (supplied with #8-32 tapped holes) G = Male Guide Pins B = Female Guide Bushings | | | |

| Shell Size - Contact Arrangements | | |
|-----------------------------------|----------------------|-----|
| Shell Size-Contact Arr. | Contact Size and Qty | |
| | #20 | #22 |
| Standard Density | | |
| 1S9 | 9 | |
| 2S15 | 15 | |
| 3S25 | 25 | |
| 4S37 | 37 | |
| 5S50 | 50 | |
| High Density | | |
| 1H15 | | 15 |
| 2H26 | | 26 |
| 3H44 | | 44 |
| 4H62 | | 62 |
| 5H78 | | 78 |
| 6H104 | | 104 |

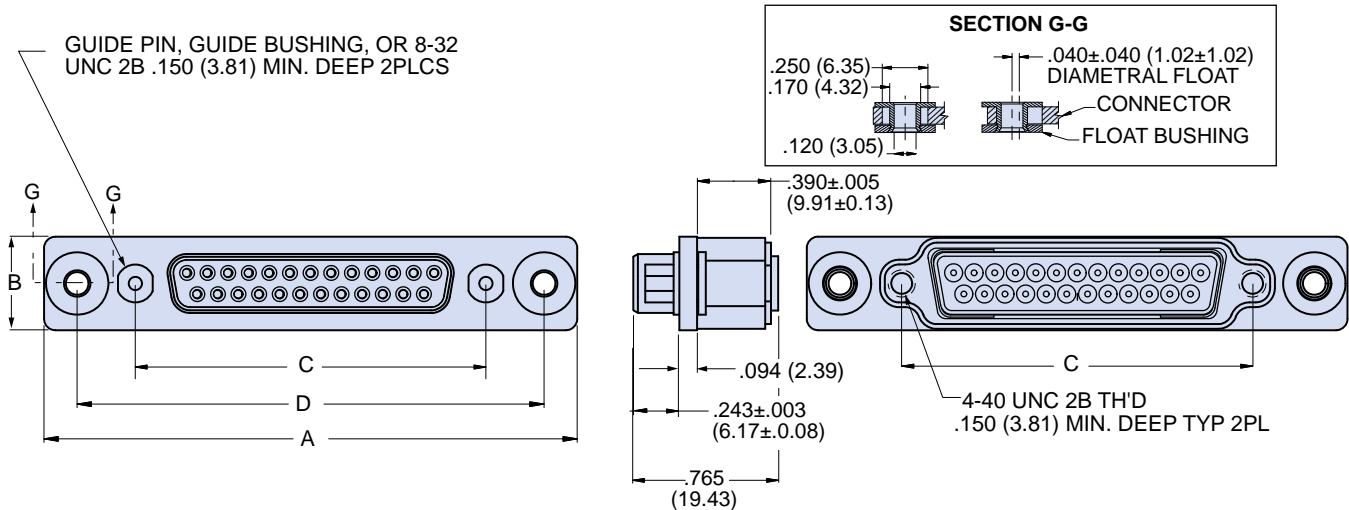
| Materials and Finishes | |
|------------------------|--------------------------------------|
| Shell | Aluminum alloy |
| Contacts | Copper alloy, 50 micron. gold plated |
| Insulators | Thermoset epoxy |
| Retention Clips | Copper alloy |
| Grommet | Fluorosilicone rubber |
| Hardware | 300 series stainless steel |

| Specifications | |
|-----------------------|--------------------------|
| Current Rating | #22 5 AMPS, #20 7.5 AMPS |
| Test Voltage | 1000 VAC RMS |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -65° C. to +200° C. |
| Ingress Protection | IP 67 |
| Shock | 300 g. |
| Vibration, Random | 43.92 g. |

| Mating Hardware | | |
|----------------------------------|-----------------------|-----------------|
| N | B | G |
| No Hardware #8-32 tapped hole | Female Guide Bushings | Male Guide Pins |
| | | |

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280-031S DIMENSIONS



| Shell Size | A | | B | | C Basic | | D Basic | |
|------------|----------|-----------|----------|-----------|---------|-------|---------|-------|
| | in ±.015 | mm ± 0.38 | in ±.015 | mm ± 0.38 | in. | mm | in | mm |
| 1 | 1.986 | 50.44 | .494 | 12.55 | .984 | 24.99 | 1.636 | 41.55 |
| 2 | 2.314 | 58.78 | .494 | 12.55 | 1.312 | 33.32 | 1.964 | 49.89 |
| 3 | 2.854 | 72.49 | .494 | 12.55 | 1.852 | 47.04 | 2.504 | 63.60 |
| 4 | 3.502 | 88.95 | .494 | 12.55 | 2.500 | 63.50 | 3.152 | 80.06 |
| 5 | 3.408 | 86.56 | .600 | 15.24 | 2.406 | 61.11 | 3.058 | 77.67 |
| 6 | 3.502 | 88.95 | .662 | 16.81 | 2.500 | 63.50 | 3.152 | 80.06 |

NOTES

- HiPer-D connectors are available with a wide variety of materials and finishes. See [About Series 28 HiPer-D Shell Plating Options](#) for additional choices. Glenair offers the industry's widest selection of plating and material choices with no setup charge, no minimum order quantity and no schedule impact.
- For panel cutout dimensions, refer to [Panel Cutouts and Printed Circuit Board Footprints](#).
- Connectors are supplied with crimp contacts per M39029. Contacts are not installed. Refer to [HiPer-D Contacts and Crimp Tools](#) for contact part numbers, specifications, crimp tool information, and insertion/extraction tools.
- HiPer-D connectors meet the requirements of MIL-DTL-24308 and are intermateable with standard M24308-type D-Subminiature connectors with corresponding contact arrangements and type.
- Additional electrical, mechanical and environmental specifications are listed in [HiPer-D Product Specification](#).