

## 280-019S socket connectors with standard M24308 type mounting flange, crimp termination

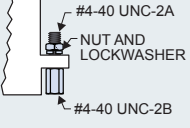
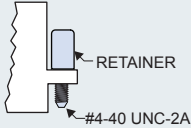
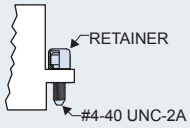
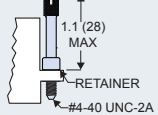
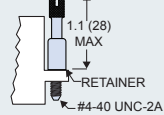


HiPer-D® socket connectors feature crimp, rear-releaseable size #20 or #22 contacts. Intermateable with standard M24308-type D-Subminiature connectors, the HiPer-D® features a rugged machined aluminum shell and waterproof sealing. Gold-plated size #20 contacts conform to M39029/63-368 and accept #20 to #24 AWG wire. Gold-plated size #22 contacts conform to M39029/57-354 and accept #22 to #28 AWG wire. Contacts are packaged with connector. Terminate contacts with crimp tools purchased separately. Glass-reinforced thermoset epoxy insulators, copper alloy retention clips. Fluorosilicone rear grommet meets IP67 immersion requirement. Shell has backshell attachment groove. 1000 VAC, 5 Amps (#22) or 7.5 Amps (#20).

B

| Ordering Information           |                                                                                                                                                                                                                                                                                    |          |      |      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|
| Sample Part Number             |                                                                                                                                                                                                                                                                                    | 280-019S | 4H62 | ME L |
| Basic Part Number              | 280-019S                                                                                                                                                                                                                                                                           |          |      |      |
| Shell Size-Contact Arrangement | See Shell Size - Contact Arrangements Table                                                                                                                                                                                                                                        |          |      |      |
| Shell Finish                   | <b>ME</b> = Electroless Nickel (RoHS) <b>MT</b> = Nickel-PTFE (RoHS)<br><b>JF</b> = Cadmium with Yellow Chromate <b>ZZ</b> = Gold (RoHS)<br><b>Z1</b> = Passivated Stainless Steel (RoHS)                                                                                          |          |      |      |
| Mating Hardware                | <b>N</b> = No Hardware (Through-Hole) <b>P</b> = #4-40 Female Jackpost<br><b>L</b> = Jackscrew, Hex Head, Low Profile <b>K</b> = Jackscrew, Slot Head, Extended Length<br><b>S</b> = Screwlock, Male, Hex Head, Low Profile <b>T</b> = Screwlock, Male, Slot Head, Extended Length |          |      |      |

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

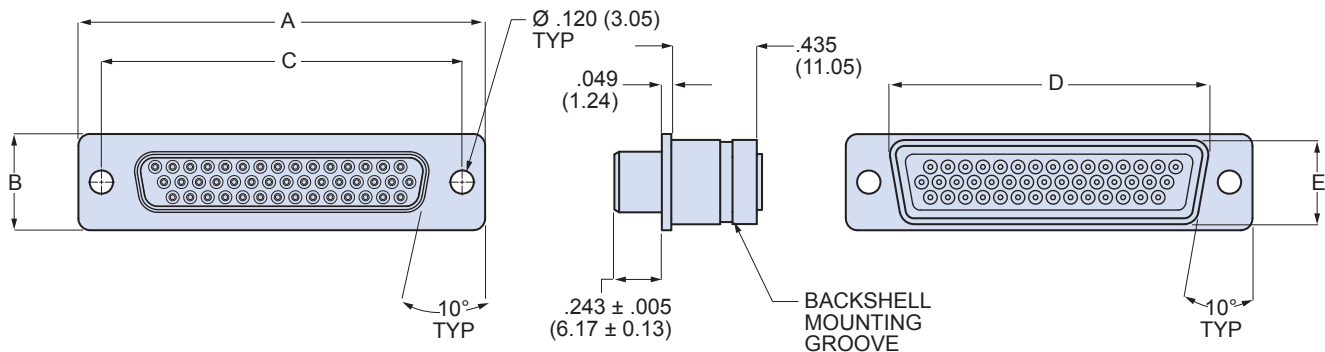
| Mating Hardware                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>N</b><br>Thru-Hole<br>No Hardware                                                | <b>P</b><br>Female Jackpost                                                         |
|  |  |
| <b>S</b><br>Captive Screwlock,<br>Hex Head                                          | <b>L</b><br>Captive Jackscrew,<br>Hex Head                                          |
|  |  |
| <b>K</b><br>Slot-Head Extended<br>Jackscrew                                         | <b>T</b><br>Slot-Head Extended<br>Captive Screwlock                                 |
|  |  |

| Materials and Finishes |                                       |
|------------------------|---------------------------------------|
| Shell                  | Aluminum alloy                        |
| Contacts               | Copper alloy, 50 microin. 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.                 |

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### 280-019S DIMENSIONS



| Shell Size | A     |       | B    |       | C Basic |       | D     |       | E    |       |
|------------|-------|-------|------|-------|---------|-------|-------|-------|------|-------|
|            | in    | mm    | in   | mm    | in.     | mm    | in    | mm    | in   | mm    |
| 1          | 1.213 | 30.81 | .494 | 12.55 | .984    | 24.99 | .769  | 19.53 | .432 | 10.97 |
| 2          | 1.541 | 39.14 | .494 | 12.55 | 1.312   | 33.32 | 1.093 | 27.76 | .432 | 10.97 |
| 3          | 2.088 | 53.04 | .494 | 12.55 | 1.852   | 47.04 | 1.635 | 41.53 | .432 | 10.97 |
| 4          | 2.729 | 69.32 | .494 | 12.55 | 2.500   | 63.50 | 2.282 | 57.96 | .432 | 10.97 |
| 5          | 2.635 | 66.93 | .605 | 15.37 | 2.406   | 61.11 | 2.188 | 55.58 | .544 | 13.82 |
| 6          | 2.729 | 69.32 | .668 | 16.97 | 2.500   | 63.50 | 2.312 | 58.72 | .606 | 15.39 |

### 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 interchangeable 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](#).