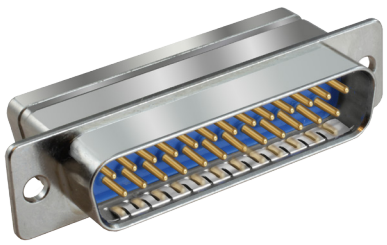
# HiPer-D® Standard and High-Density Connectors

## 280-018P pin connectors with standard M24308 type mounting flange, crimp termination





HiPer-D® pin 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, waterproof sealing and optional ground springs for improved resistance to electromagnetic interference. Gold-plated size #20 contacts conform to M39029/64-369 and accept #20 to #24 AWG wire. Gold-plated size #22 contacts conform to M39029/58-360 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 face seal and rear grommet meet IP67 immersion requirement. 1000 VAC, 5 Amps (#22) or 7.5 Amps (#20).

### Ordering Information

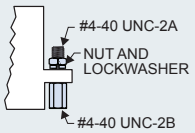
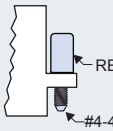
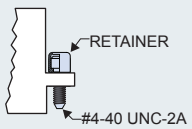
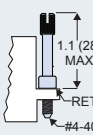
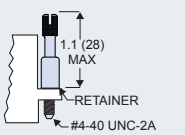
| Sample Part Number | 280-018P | 3S25 | ME | G | P |
|---|---|---|---|---|---|

| | | |
|---|---|---|
| **Basic Part Number** | **280-018P** | |
| **Shell Size-Contact Arrangement** | See Shell Size - Contact Arrangements Table | |
| **Shell Finish** | **ME** = Electroless Nickel (RoHS)<br>**JF** = Cadmium with Yellow Chromate<br>**Z1** = Passivated Stainless Steel (RoHS) | **MT** = Nickel-PTFE (RoHS)<br>**Z2** = Gold (RoHS) |
| **Ground Spring** | **G** = Supplied with EMI Ground Spring | **N** = No Ground Spring |
| **Mating Hardware** | **N** = No Hardware (Through-Hole)<br>**L** = Jackscrew, Hex Head, Low Profile<br>**S** = Screwlock, Male, Hex Head, Low Profile | **P** = #4-40 Female Jackpost<br>**K** = Jackscrew, Slot Head, Extended Length<br>**T** = Screwlock, Male, Slot Head, Extended Length |

### 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 |

### Mating Hardware

| | |
|---|---|
| **N**<br>Thru-Hole<br>No Hardware | **P**<br>Female Jackpost |
| |  |
| **S**<br>Captive Screwlock,<br>Hex Head | **L**<br>Captive Jackscrew,<br>Hex Head |
|  |  |
| **K**<br>Slot-Head Extended<br>Jackscrew | **T**<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 and Seal | Fluorosilicone rubber |
| EMI Spring | Copper alloy, nickel plated |
| 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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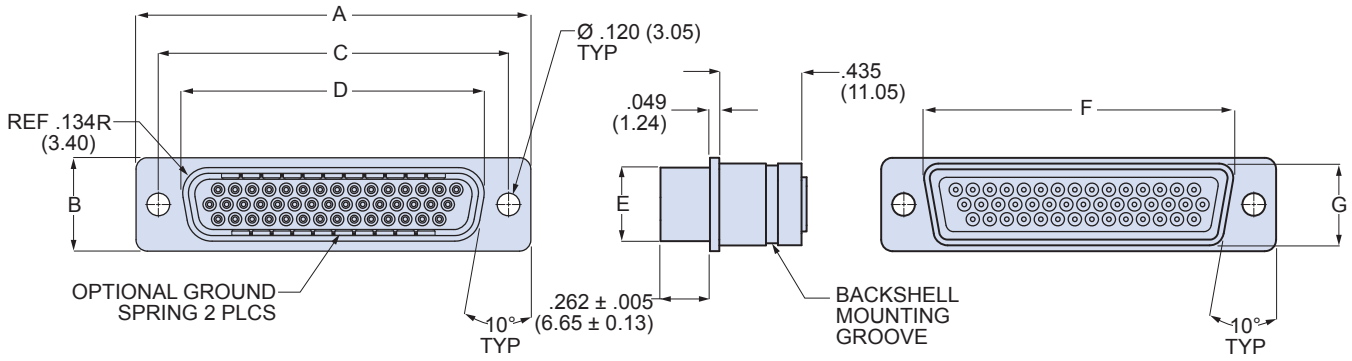
Dimensions in Inches (millimeters) are subject to change without notice.

# HiPer-D® Standard and High-Density Connectors

## 280-018P pin connectors with standard M24308 type mounting flange, crimp termination



### 280-018P DIMENSIONS




| Shell Size | A | | B | | C Basic | | D | | E | | F Max. | | G Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in ± .015 | mm ± 0.38 | in ± .015 | mm ± 0.38 | in. | mm | in ± .005 | mm ± 0.13 | in ± .005 | mm ± 0.13 | in. | mm | in. | mm |
| 1 | 1.213 | 30.81 | .494 | 12.55 | .984 | 24.99 | .726 | 18.44 | .389 | 9.88 | .769 | 19.53 | .432 | 10.97 |
| 2 | 1.541 | 39.14 | .494 | 12.55 | 1.312 | 33.32 | 1.054 | 26.77 | .389 | 9.88 | 1.093 | 27.76 | .432 | 10.97 |
| 3 | 2.088 | 53.04 | .494 | 12.55 | 1.852 | 47.04 | 1.594 | 40.49 | .389 | 9.88 | 1.635 | 41.53 | .432 | 10.97 |
| 4 | 2.729 | 69.32 | .494 | 12.55 | 2.500 | 63.50 | 2.242 | 56.95 | .389 | 9.88 | 2.282 | 57.96 | .432 | 10.97 |
| 5 | 2.635 | 66.93 | .605 | 15.37 | 2.406 | 61.11 | 2.139 | 54.33 | .501 | 12.73 | 2.188 | 55.58 | .544 | 13.82 |
| 6 | 2.729 | 69.32 | .668 | 16.97 | 2.500 | 63.50 | 2.272 | 57.71 | .563 | 14.30 | 2.312 | 58.72 | .606 | 15.39 |

### NOTES

1. 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.
2. For panel cutout dimensions, refer to ***Panel Cutouts and Printed Circuit Board Footprints***.
3. 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.
4. 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.
5. Additional electrical, mechanical and environmental specifications are listed in ***HiPer-D® Product Specification***.

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