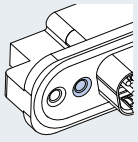
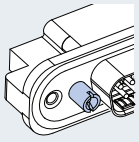
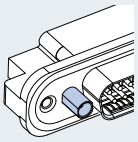
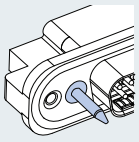
HiPer-D® Standard and High-Density Connectors

280-020P panel mount pin connectors with O-ring mounting flange, crimp termination

Rear panel mount HiPer-D® pin connectors feature crimp, rear-releaseable size #20 or #22 contacts and O-ring for a watertight panel seal. Intermateable with standard M24308-type D-Subminiature connectors, the HiPer-D® features a rugged machined aluminum shell, environmental sealing and optional ground springs for improved resistance to electromagnetic interference. #4-40 threaded mounting holes simplify panel attachment. 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. Fluorosilicone face seal and rear grommet meet IP67 immersion requirement (mated). 1000 VAC, 5 Amps (#22) or 7.5 Amps (#20).

Ordering Information						
Sample Part Number		**280-020P**	**3H44**	**JF**	**G**	**P**
Basic Part Number	**280-020P**					
Shell Size-Contact Arrangement	See Shell Size - Contact Arrangements Table					
Shell Finish	**ME** = Electroless Nickel **JF** = Cadmium with Yellow Chromate **Z1** = Passivated Stainless Steel	**MT** = Nickel-PTFE **Z2** = Gold				
Ground Spring	**G** = Supplied with EMI Ground Spring	**N** = No Ground Spring				
Mating Hardware	**N** = No Hardware (supplied with #8-32 tapped holes) **G** = Male Guide Pins	**P** = #4-40 Female Jackposts **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

Mating Hardware	
N No Hardware #8-32 tapped hole	**P** #4-40 Female Jackposts
	
B Female Guide Bushings	**G** Male Guide Pins
	

Materials and Finishes	
Shell	Aluminum alloy
Contacts	Copper alloy, 50 microin. gold plated
Insulators	Thermoset epoxy
Retention Clips	Beryllium copper alloy
O-ring, Grommet, 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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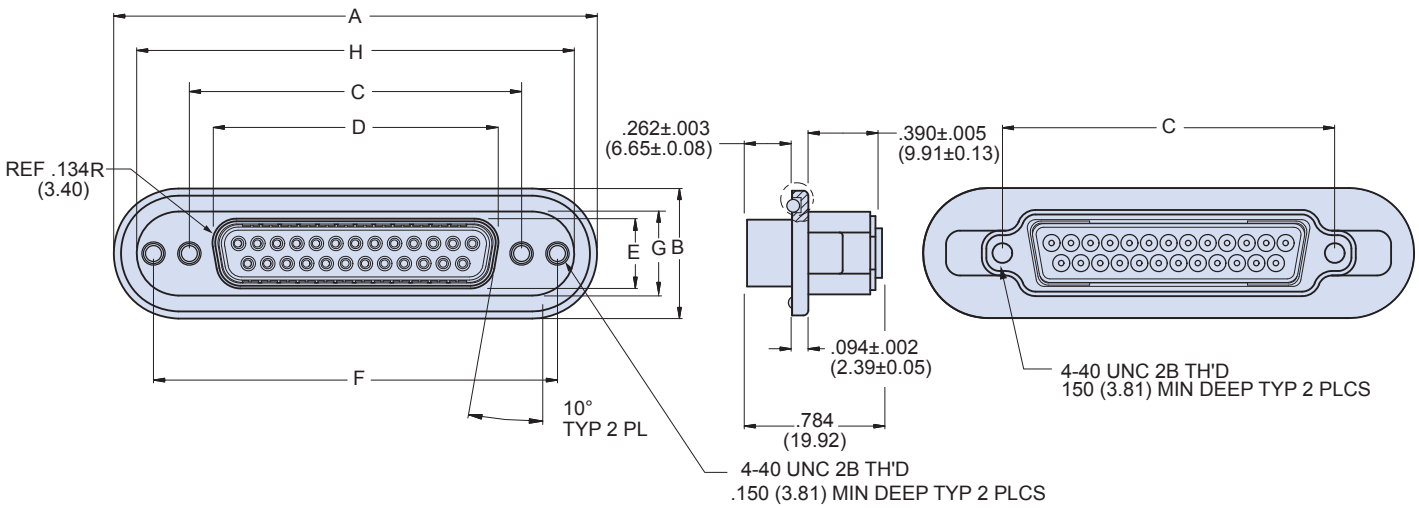
280-020P panel mount pin connectors with O-ring mounting flange, crimp termination

280-020P DIMENSIONS



Shell Size	A		B		C Basic		D		E		F Basic		G		H	
	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 ± .015	mm ± 0.38	in ± .015	mm ± 0.38
1	1.865	47.37	.725	18.42	.984	24.99	.726	18.44	.389	9.88	1.424	36.17	.469	11.91	1.609	40.87
2	2.200	55.88	.725	18.42	1.312	33.32	1.054	26.77	.389	9.88	1.752	44.50	.469	11.91	1.944	49.38
3	2.736	69.49	.725	18.42	1.852	47.04	1.594	40.49	.389	9.88	2.292	58.22	.469	11.91	2.480	62.99
4	3.385	85.98	.725	18.42	2.500	63.50	2.242	56.95	.389	9.88	2.940	74.68	.469	11.91	3.129	79.48
5	3.289	83.54	.837	21.26	2.406	61.11	2.139	54.33	.501	12.73	2.846	72.29	.581	14.76	3.033	77.04
6	3.383	85.93	.899	22.83	2.500	63.50	2.272	57.71	.563	14.30	2.940	74.68	.643	16.33	3.127	79.43

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***.