

SERIES 28

# HiPer-D Space Grade Connectors

280-019S inline cable or panel mount socket connector, crimp termination



HiPer-D socket connectors for in-line cable or panel mount 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. 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).

### How To Order

<b>Sample Part Number</b>	<b>280-019S</b>	<b>4H62</b>	<b>ME</b>	<b>L</b>
<b>Basic Part Number</b>	<b>280-019S</b>			
<b>Shell Size-Contact Arrangement</b>	See Shell Size - Contact Arrangements Table			
<b>Shell Finish</b>	<b>ME</b> = Electroless Nickel (RoHS) <b>Z2</b> = Gold (RoHS) <b>Z1</b> = Passivated Stainless Steel (RoHS)			
<b>Mating Hardware</b>	<b>N</b> = No Hardware (Through-Hole) <b>L</b> = Jackscrew, Hex Head, Low Profile <b>S</b> = Screwlock, Male, Hex Head, Low Profile	<b>P</b> = #4-40 Female Jackpost <b>K</b> = Jackscrew, Slot Head, Extended Length <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

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

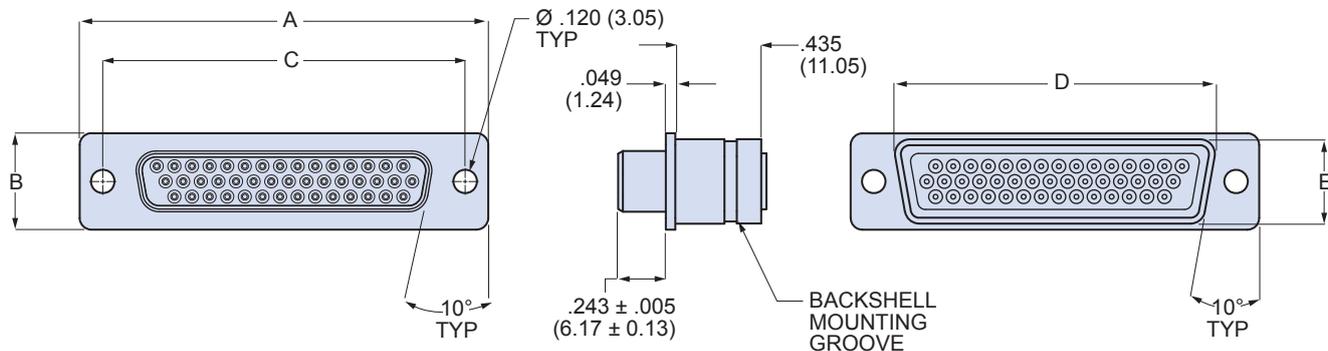
Current Rating	#22 5 AMPS, #20 7.5 AMPS
Test Voltage	1000 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +200° C.
Ingress Protection	IP 67
Shock	300 g.
Vibration, Random	43.92 g.

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## 280-019S DIMENSIONS



Dimensions										
Shell Size	A		B		C Basic		D		E	
	in ± .015	mm ± 0.38	in ± .015	mm ± 0.38	in. ± .005	mm ± 0.13	in ± .005	mm ± 0.13	in ± .005	mm ± 0.13
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 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](#).