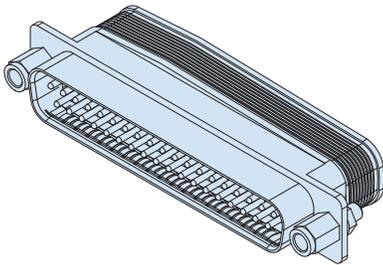


# SERIES 28 HiPer-D® Combo Connectors

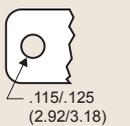
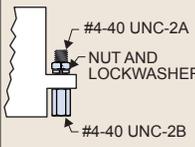
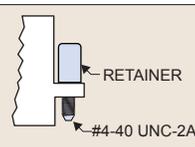
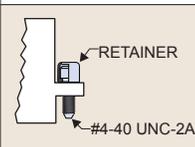
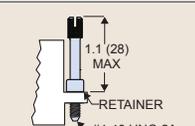
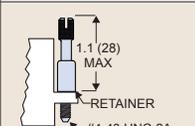


## 280-107 combo cable pin connectors with standard mounting flange, integral banding platform and crimp termination



Combo HiPer-D® Combo-D connectors, with integral banding platform, feature size #20 signal contacts and size #8 power or coax contacts. **Size #8 contacts are ordered separately.** The HiPer-D® features a rugged machined aluminum shell and wire grommet for environmental protection. Size #20 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. 1000 VAC, 7.5 Amps (#20), up to 40 Amps with size #8 power contacts.

How To Order						
<b>Sample Part Number</b>	<b>280-107</b>	<b>P</b>	<b>4S37</b>	<b>ME</b>	<b>G</b>	<b>S</b>
<b>Basic Part Number</b>	<b>280-107</b>					
<b>Contact</b>	<b>P</b> = Pin		<b>A</b> = Less contact			
<b>Shell Size-Contact Arrangement</b>	Contact arrangements are shown in the adjacent table					
<b>Shell Finish</b>	<b>ME</b> = Electroless Nickel Over Aluminum		<b>MT</b> = Nickel-PTFE Over Aluminum			
	<b>Z1</b> = Passivated Stainless Steel		<b>ZM</b> = Nickel Over Stainless		<b>JF</b> - Yellow Chromate Over Cadmium	
<b>Ground Option</b>	<b>G</b> = EMI/Grounding			<b>N</b> = None		
<b>Hardware Options</b>	<b>N</b> = No Hardware (ø.120 Through Hole)		<b>P</b> = Female Jackpost (for Cable Mounting Only)			
	<b>L</b> = Low Profile Hex Head Captive Jackscrew		<b>K</b> = Slot Head Extended Jackscrew			
	<b>S</b> = Hex Head Captive Screwlock		<b>T</b> = Slot Head Extended Captive Screwlock			

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

Shell Size	Contact Arrangements			
	Combo D Arrangement		Hiper D Arrangement	
	Layout	Contact Quantity	Layout	Quantity
1	-2P2	2#8	1S9	9 #20
	-5P1	4#20, 1#8	1H15	15#22
2	-3P3	3 #8	2S15	15#20
	-7P2	5#20, 2#8	2H26	26#22
3	-11P1	10#20, 1#8	3H44	44#22
	-5P5	5 #8		
	-9P4	5#20, 4#8		
	-13P3	10#20, 3#8		
	-17P2	15#20, 2#8		
	-21P1	20#20, 1#8		
4	-8P8	8 #8	4S37	37#20
	-13P6	7#20, 6#8	4H62	62#22
	-17P5	12#20, 5#8		
	-21PA4	17#20, 4#8		
	-25P3	22#20, 3#8		
	-27P2	25#20, 2#8		
	-24P7	17#20, 7#8		
-36P4	32#20, 4#8			
5	-43P2	41#20, 2#8	5H78	78#22
	-47P1	46#20, 1#8	6H104	104#22
6				

Specifications	
Current Rating	#20 7.5 AMPS, #8 40 AMPS
Test Voltage	1000 VAC RMS
Insulation Resistance	5000 megohms min @ 500 VDC
Operating Temperature	-65° C. to +200° C.
Ingress Protection	IP 67
Shock	300 g.
Vibration, Random	43.92 g.
Dielectric Withstanding Voltage	1000 VOLTS

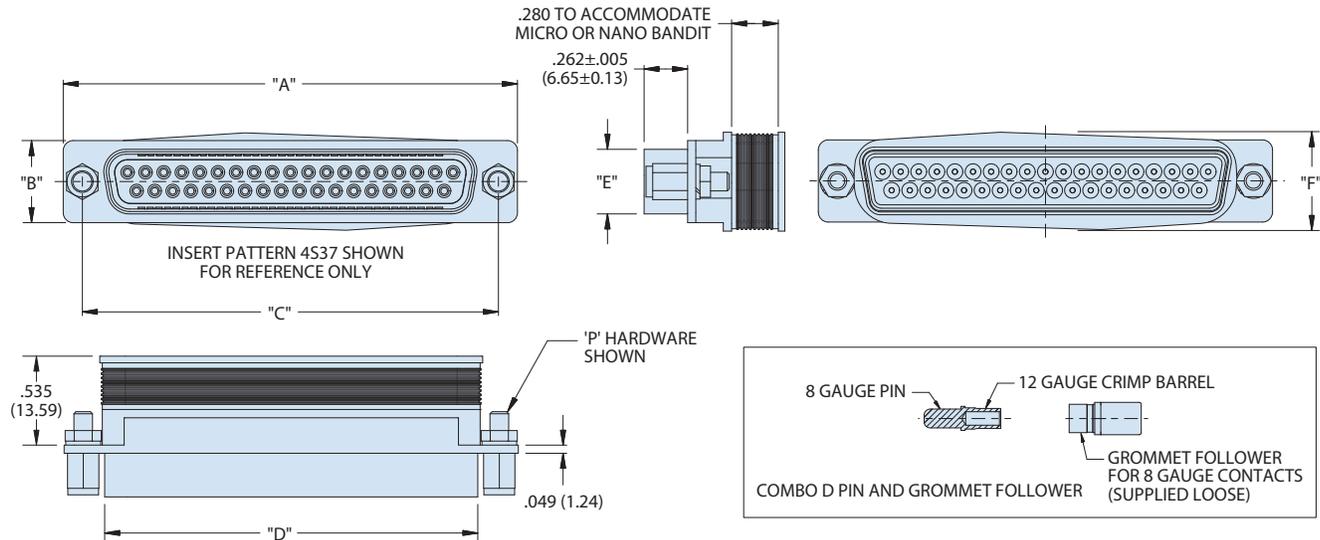
Materials and Finishes	
Shell	How to Order table
Contacts	Copper alloy/ gold over nickel
Inserts	Thermoset epoxy
Retention Clips	Copper alloy
Grommet, O-ring	Fluorosilicone/N.A.
Hardware	300 series stainless steel

# SERIES 28 HiPer-D® Combo Connectors



280-107 combo cable pin connectors with standard mounting flange, integral banding platform and crimp termination

## 280-107 DIMENSIONS



Dimensions

Shell Size	Insert Pattern	"A" ±.015		"B" ±.015		"C" ±.005		"D" ±.005		"E" ±.005		"F" ±.005		Contact P/N
		In.	mm.											
1	SD 9	1.213	30.81	0.494	12.55	0.984	24.99	.726	18.44	.389	9.88	.620	15.75	M39029/64-369
	HD 15													M39029/58-360
2	SD 15	1.541	39.14	0.494	12.55	1.312	33.32	1.054	26.77	.389	9.88	.620	15.75	M39029/64-369
	HD 26													M39029/58-360
3	SD 25	2.088	53.04	0.494	12.55	1.852	47.04	1.594	40.49	.389	9.88	.620	15.75	M39029/64-369
	HD 44													M39029/58-360
4	SD 37	2.729	69.32	0.494	12.55	2.5	63.50	2.242	56.95	.389	9.88	.620	15.75	M39029/64-369
	HD 62													M39029/58-360
5	SD 50	2.635	66.93	0.605	15.37	2.406	61.11	2.139	54.33	.501	12.73	.730	18.54	M39029/64-369
	HD 78													M39029/58-360
6	HD 104	2.729	69.32	0.668	16.97	2.5	63.50	2.272	57.71	.563	14.30	.795	20.19	M39029/58-360

## NOTES

- See [About Series 28 HiPer-D® Shell Plating Options](#) for additional shell material and finish options. Glenair offers the industry's widest selection of plating options with no minimum order quantities or setup charges.
- For panel cutouts, refer to [Panel Cutouts and Printed Circuit Board Footprints](#).
- Connectors are supplied with size #20 crimp contacts per M39029. Contacts are not installed. Refer to [HiPer-D® Contacts and Tools](#) section for contact part numbers, specifications, crimp tool information, and insertion/extraction tools.
- Size 8 contacts are ordered separately.** Refer to [HiPer-D® Contacts and Tools](#) section for contact ordering information, specifications, crimp tool information, and insertion/extraction tools.
- Combo HiPer-D® connectors meet the applicable requirements of MIL-DTL-24308 and are intermateable with standard non-environmental D Subminiature connectors with corresponding contact arrangements and type. **Size 8 contacts from other manufacturers cannot be installed in HiPer-D® connectors.**
- Additional electrical, mechanical and environmental specifications are listed in [HiPer-D® Product Specification](#).