

SERIES 28

# HiPer-D® Combo Connectors



## 280-047S combo cable socket connectors with standard mounting flange, crimp termination



Combo HiPer-D® socket connectors 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, waterproof sealing and optional ground springs for improved resistance to electromagnetic interference. 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

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Sample Part Number	280-047S	3-5W5	MT	P
Basic Part Number	280-047S			
Shell Size-Contact Arrangement	See Shell Size - Contact Arrangements Table			
Shell Finish	<b>ME</b> = Electroless Nickel <b>MT</b> = Nickel-PTFE <b>JF</b> = Cadmium with Yellow Chromate <b>Z2</b> = Gold <b>Z1</b> = Passivated Stainless Steel			
Mating Hardware	<b>N</b> = No Hardware (Through-Hole) <b>P</b> = #4-40 Female Jackpost <b>L</b> = Jackscrew, Hex Head, Low Profile <b>K</b> = Jackscrew, Slot Head, Extended Length <b>S</b> = Screwlock, Male, Hex Head, Low Profile <b>T</b> = Screwlock, Male, Slot Head, Extended Length			

### Contact Arrangements

Shell Size-Contact Arr.	Contact Size and Qty	
	#20	#8
1-2W2		2
1-5W1	4	1
2-3W3		3
2-7W2	5	2
2-11W1	10	1
3-5W5		5
3-9W4	5	4
3-13W3	10	3
3-17W2	15	2
3-21W1	20	1
4-8W8		8
4-13W6	7	6
4-17W5	12	5
4-21WA4	17	4
4-25W3	22	3
4-27W2	25	2
5-24W7	17	7
5-36W4	32	4
5-43W2	41	2
5-47W1	46	1

### Mating Hardware

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

### Specifications

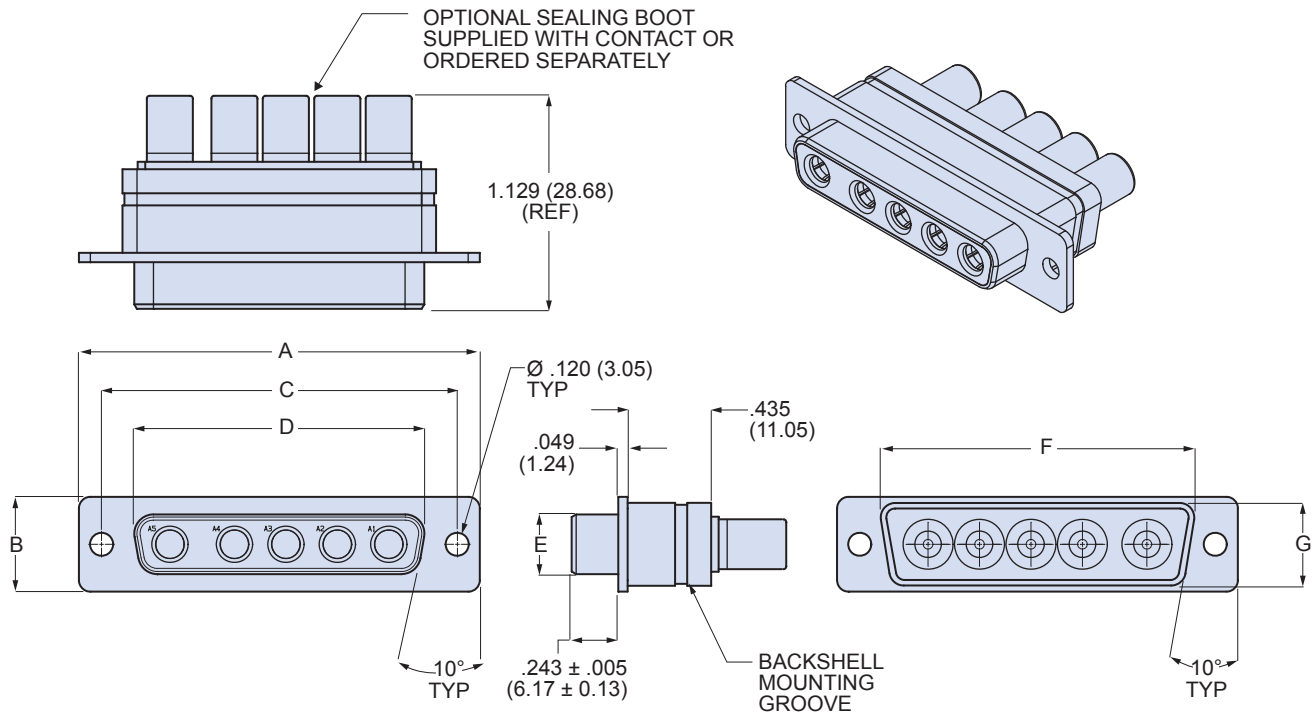
Current Rating	#20 7.5 AMPS, #8 40 AMPS
Test Voltage	1000 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +200° C.
Ingress Protection	IP 67
Shock	300 g.
Vibration, Random	43.92 g.

### Materials and Finishes

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold
Insulators	Thermoset epoxy
Retention Clips	Copper alloy
Grommet	Fluorosilicone rubber
Hardware	300 series stainless steel

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### 280-047S DIMENSIONS



Dimensions														
Shell Size	A		B		C Basic		D		E		F		G	
	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	in ± .005	mm ± 0.13	in ± .005	mm ± 0.13
1	1.213	30.81	.494	12.55	.984	24.99	.643	16.33	.311	7.90	.769	19.53	.432	10.97
2	1.541	39.14	.494	12.55	1.312	33.32	.971	24.66	.311	7.90	1.093	27.76	.432	10.97
3	2.088	53.04	.494	12.55	1.852	47.04	1.511	38.38	.311	7.90	1.635	41.53	.432	10.97
4	2.729	69.32	.494	12.55	2.500	63.50	2.159	54.84	.311	7.90	2.282	57.96	.432	10.97
5	2.635	66.93	.605	15.37	2.406	61.11	2.054	52.17	.423	10.74	2.188	55.58	.544	13.82

### 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 interchangeable 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](#).