



Connector Density	Type	Style and Shell Finish	No. of Contact Positions	Footprint	Mating Hardware	Board Mounting	Contact Plating (Mating Area/Solder Tails)	Post Length	
HD-22	Plug and Receptacle	Front Metal-Shell, Tin Plated (Pg. 52)	15				Duplex (.000030 [0.00076] Gold/Tin)		
			26	.350 [8.89]	Threaded Inserts	Boardlocks		.125 [3.18]	
		Full Metal-Shell With and Without Grounding Indents, Tin Plated (Pgs. 71, 139, 155)	9	.454			Duplex (.000030 [0.00076] Gold/Tin)		
			15	[11.53]	Standard Screws			.125 [3.18]	
			25				Duplex (.000030 [0.00076] Gold/Tin)		
			37	.545 [13.84]	Female Screwlocks	Dia. Holes		.220 [5.59]	
	Plugs and Receptacles	Front Metal-Shell With Grounding Indents, Tin Plated (Pgs. 55-58, 60-63, 65-67, 131, 134, 138, 143, 150)	9	.318 [8.08]	.120 [3.05]		Duplex (.000030 [0.00076] Gold/Tin)		
			15	.478 [12.14]	Dia. Holes			.125 [3.18]	
			25		Threaded Inserts		Duplex (.000030 [0.00076] Gold/Tin)		
			37	.590 [14.99]	Female Screwlocks	Boardlocks		.125 [3.18]	
		All-Plastic (Pgs. 68-70, 132, 133, 135, 136)			.125 [3.18]		Duplex (.000030 [0.00076] Gold/Tin)		
			9	.318 [8.08]	Dia. Holes			.125 [3.18]	
			15		.120 [3.05]		Duplex (.000030 [0.00076] Gold/Tin)		
			25		Dia. Holes			.125 [3.18]	
			37	.590 [14.99]	Threaded Inserts	.120 [3.05]	Duplex (Gold Flash/Tin)		
					Female Screwlocks	Boardlocks			

**HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount**

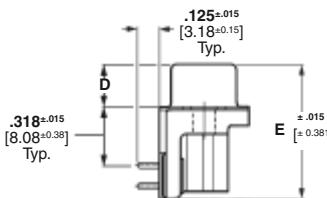
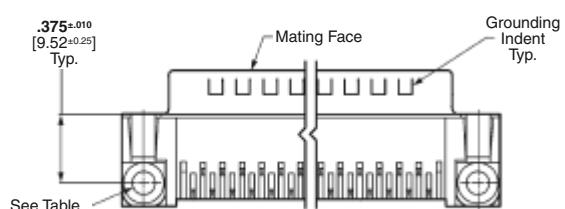
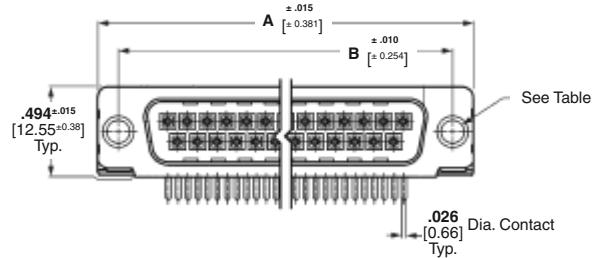
Post Size—.026 [0.66] Dia.      Plug


With Grounding Indents  
and Grounding Straps


With Threaded Insert



With Fixed Female Screwlock


**Material and Finish:**

Front Shell—Steel, tin plated

Housing—94V-0 rated thermoplastic, black

Eyelets—Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Pin Contacts (Posted)—Brass, duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

**Technical Documents:**

Product Specification—108-40025

Application Specification—  
114-40010

See customer drawings for printed circuit board layouts.

■ Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476

■ Certified by Canadian Standards Association, File No. LR 7189

Shell Size	No. of Contact Positions	Dimensions				Contact Finish (Plating Code)	Plug Part Numbers					
		A	B	D	E		Without Boardlocks	With Boardlocks				
							With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	.235 5.97	.733 18.62	A	5747250-2 5747250-3	5747250-4 5747250-6	5747250-6 5747250-6	5747840-2 5747840-3	5747840-4 5747840-5	5747840-6 5747840-5
		1.541 39.14	1.312 33.33	.235 5.97	.733 18.62	B	5747236-2 5747236-4	5747236-4 5747236-6	5747236-6 5747236-6	5747841-2 5747841-3	5747841-4 5747841-3	5747841-6 —
2	15	2.088 53.04	1.852 47.04	.230 5.84	.738 18.75	A	5747238-2 5747238-2	5747238-4 5747238-3	5747238-6 —	5747842-2 —	5747842-4 5747842-3	5747842-6 5747842-5
		2.729 69.32	2.500 63.50	.230 5.84	.740 18.80	B	— —	5747252-4 —	— —	5747843-2 —	5747843-4 5747843-3	5747843-6 —

**Notes:** 1. All plug connectors are preloaded with size 20 DF posted pin contacts.  
2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.  
3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

Note: All part numbers are RoHS compliant.

**HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)**
**Post Size—.026 [0.66] Dia.**      **Plug**

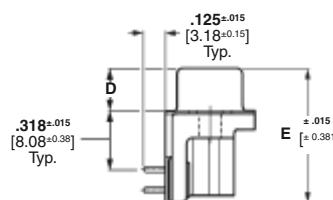
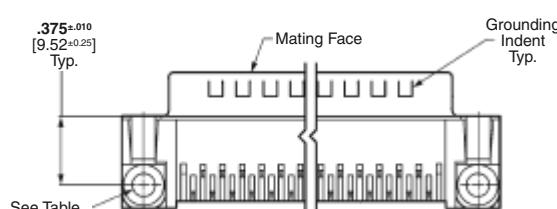
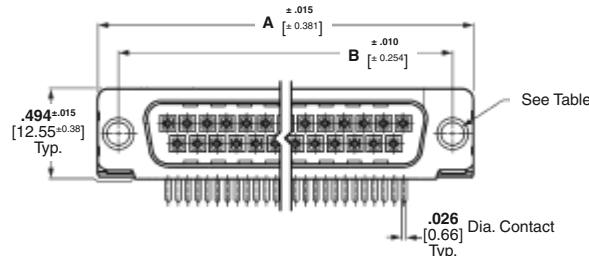

With Grounding Indents and Grounding Straps



With Threaded Insert



With Fixed Female Screwlock


**Material and Finish:**
**Front Shell**—Steel, tin plated

**Housing**—94V-0 rated thermoplastic, compatible with standard wave, vapor phase, and infra-red reflow (SMT) soldering, black

**Eyelets**—Brass, tin plated

**Threaded Inserts**—Zinc

**Female Screwlock**—Zinc

**Boardlocks**—Copper alloy, tin plated

**Pin Contacts (Posted)**—Brass, duplex plated as follows:

**A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

**B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Shell Size	No. of Contact Positions	Dimensions				Contact Finish (Plating Code)	Plug Part Numbers With Boardlocks	
		A	B	D	E		With Threaded Inserts	With Fixed Female Screwlocks
1	9	<b>1.213</b> 30.81	<b>.984</b> 24.99	<b>.235</b> 5.97	<b>.733</b> 18.62	A	5788792-1	5788793-1
						B	5788792-2	5788793-2
3	25	<b>2.088</b> 53.04	<b>1.852</b> 47.04	<b>.230</b> 5.84	<b>.738</b> 18.75	A	5788794-1	5788795-1
						B	5788794-2	—

- Notes:**
1. All plug connectors are preloaded with size 20 DF posted pin contacts.
  2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
  3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

**Technical Documents:**
**Product Specification**—108-40025

**Application Specification**—  
114-40010

Note: All part numbers are RoHS compliant.