

## Right-Angle Posted Connectors



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	<b>.350</b> [8.89]	Threaded Inserts	Boardlocks	Duplex (0.000030 [0.00076] Gold/Tin)	<b>.125</b> [3.18]
			26		Female Screwlocks		Duplex (Gold Flash/Tin)	
			44		Standard Screws		Duplex (.000030 [0.00076] Gold/Tin)	
			62		Female Screwlocks		Duplex (Gold Flash/Tin)	
HD-20	Plugs and Receptacles	Full Metal-Shell With and Without Grounding Indents, Tin Plated (Pgs. 71, 139, 155)	9	<b>.454</b> [11.53]	Standard Screws	<b>.120</b> [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	<b>.125</b> [3.18]
			15		Female Screwlocks		Duplex (Gold Flash/Tin)	
			25					
			37					
		Front Metal-Shell With Grounding Indents, Tin Plated (Pgs. 55-58, 60-63, 65-67, 131, 134, 138, 143, 150)	9	<b>.318</b> [8.08]	<b>.120</b> [3.05] Dia. Holes	<b>.125</b> [3.18] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	<b>.125</b> [3.18]
			15		Threaded Inserts		Duplex (Gold Flash/Tin)	
			25		Female Screwlocks			
			37					
		All-Plastic (Pgs. 68-70, 132, 133, 135, 136)	9	<b>.318</b> [8.08]	<b>.120</b> [3.05] Dia. Holes	<b>.125</b> [3.18] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	<b>.125</b> [3.18]
			15		Threaded Inserts		Duplex (Gold Flash/Tin)	
			25		Female Screwlocks			
			37					

## Right-Angle Posted Connectors (Continued)

### Product Facts:

- Flame retardant thermoplastic housing material, UL 94V-0 rated
- HD-20 right-angle connectors are available in 9, 15, 25 and 37 positions (Shell Sizes 1 thru 4) in both plug and receptacle versions; some versions available in 50 position, (Shell Size 5)
- HD-20 stacked connectors are available in 9/9, 15/15, 25/25, and 37/37 positions (Shell Sizes 1 thru 4) in receptacle over receptacle, plug over plug and combination versions
- HD-22 right-angle receptacle connectors are available in 15, 26, 44, 62 and 78 positions (Shell Sizes 1 thru 5)
- Low cost front metal-shell design compatible with full metal-shell connectors
- Integral boardlock versions secure posted connectors to pc boards prior to soldering

- HD-20 and HD-22 connector contacts are available in plating types to satisfy different applications
- HD-22 right-angle posted connectors are designed for high temperature applications
- Integral fixed 4-40 threaded inserts and screwlocks are available in both HD-20 and HD-22 connectors
- Connectors are intermateable with any size 20 or 22 subminiature D connectors dimensionally complying with MIL-C-24308

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### Right-Angle Stacked Connectors (Centerline-to-centerline height .750 [19.05])

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-20	Receptacle over Receptacle							
	Plug over Plug	Front Metal-Shell, Tin Plated (Pgs. 144-149, 151)	9/9 15/15 25/25 37/37 (Std.)	See Customer Drawings	Threaded Inserts	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin) (.000010 [0.00025] Gold/Tin)	.125 [3.18]
	Receptacle over Plug				Female Screwlocks	Boardlocks		
	Plug over Receptacle						Duplex (Gold Flash/Tin)	

## HD-22 and HD-20 Commercial Connectors (AMPLIMITE)

## Contact Arrangements

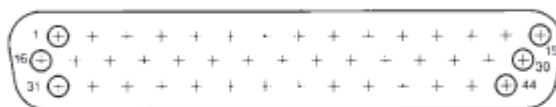
## HD-22 Inserts



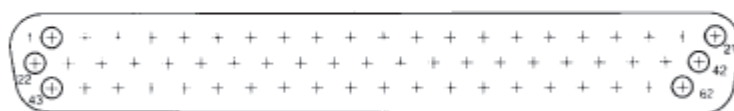
**Shell Size 1  
(15 Position)**



**Shell Size 2  
(26 Position)**



**Shell Size 3  
(44 Position)**



**Shell Size 4  
(62 Position)**

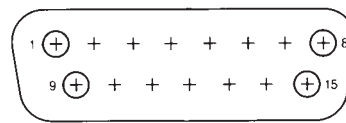


**Shell Size 5  
(78 Position)**

## HD-20 Inserts



**Shell Size 1  
(9 Position)**



**Shell Size 2  
(15 Position)**



**Shell Size 3  
(25 Position)**



**Shell Size 4  
(37 Position)**



**Shell Size 5  
(50 Position)**

**Note:** Mating face of plug is shown, receptacle is mirror-image.

## HD-22 and HD-20 Connectors Performance Characteristics

### Cable Connectors

	Connector Type		
	HDP-22	HDE-20	HDP-20
<b>Electrical Characteristics</b>			
Contact Current Rating (One pair of contacts)	22 AWG [0.4mm <sup>2</sup> ] Wire 5.0 amperes	20 AWG [0.6mm <sup>2</sup> ] 3 amperes	20 AWG [0.6mm <sup>2</sup> ] 7.5 amperes
Termination Resistance	15 milliohms (max.)	30 milliohms (max.)	15 milliohms (max.)
Dielectric Withstanding Voltage	1000 VAC min.	1000 VAC min.	1000 VAC min.
Insulation Resistance	5000 megohms min.	5000 megohms min.	5000 megohms min.
<b>Mechanical Characteristics</b>			
Contact Insertion Force	3 lb. max. [13.34 N max.]	N/A	3 lb. max. [13.34 N max.]
Contact Retention	5 lb. min. [22.24 N min.]	7 lb. min. [31.14 N min.]	10 lb. min. [44.48 N min.]
Contact Mating Force (Per contact circuit pair)	8 oz. max. [2.22 N max.]	8 oz. max. [2.22 N max.]	8 oz. max. [2.22 N max.]
Contact Unmating Force (Per contact circuit pair)	.75 oz. min. [0.209 N min.]	.75 oz. min. [0.209 N min.]	.75 oz. min. [0.209 N min.]
Tensile Strength	22 AWG—12 lb. [0.4mm <sup>2</sup> —53.4 N] 24 AWG—8 lb. [0.2mm <sup>2</sup> —35.6 N] 26 AWG—4.5 lb. [0.15mm <sup>2</sup> —20.02 N] 28 AWG—2.7 lb. [0.08mm <sup>2</sup> —12.01 N]	20 AWG—9.5 lb. [0.6mm <sup>2</sup> —42.3 N] 22 AWG—6 lb. [0.4mm <sup>2</sup> —26.7 N] 24 AWG—4 lb. [0.2mm <sup>2</sup> —17.79 N] 26 AWG—2.5 lb. [0.15mm <sup>2</sup> —11.12 N] 28 AWG—2.5 lb. [0.08mm <sup>2</sup> —11.12 N] 30 AWG—1 lb. [0.05mm <sup>2</sup> —4.45 N]	20 AWG—20 lb. [0.6mm <sup>2</sup> —89 N] 22 AWG—12 lb. [0.4mm <sup>2</sup> —53.4 N] 24 AWG—8 lb. [0.2mm <sup>2</sup> —35.6 N] 26 AWG—4.5 lb. [0.15mm <sup>2</sup> —20.02 N] 28 AWG—2.7 lb. [0.08mm <sup>2</sup> —12.01 N]
Durability	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles
<b>Environmental Characteristics</b>			
Vibration	Random 20 G's rms max.	Random 20 G's rms max.	Random 20 G's rms max.
Physical Shock	50 G's Duration 11 ms	50 G's Duration 11 ms	50 G's Duration 11 ms

### Board Mount Connectors

	Connector Type
	HD-20
<b>Electrical Characteristics</b>	
Single Contact Current Rating (30°C Rise) Duration 11 ms	18 AWG 6.0 amperes 24 AWG 4.3 amperes 28 AWG 2.9 amperes
Termination Resistance	15 milliohms* (max.)
Dielectric Withstanding Voltage	1000 VAC min.**
Insulation Resistance	5000 megohms min.

\*Stacked Connectors—30 milliohms (max.)

\*\*Stacked Connectors—500 VAC min.

		Connector Type	
		HD-20	
Mechanical Characteristics			
Durability		.000030 [0.00076] gold—500 cycles Gold Flash—100 cycles	
Connector Mating and Unmating Force (lbs. max. over [N max.])	Size	HD-20 Without Grounding Indents	HD-20 With Grounding Indents
	1	4.5 [20.02]	30.0 [133.5]
	2	7.5 [33.4]	33.0 [146.8]
	3	12.5 [55.6]	37.0 [164.6]
	4	18.5 [82.3]	40.0 [177.9]
	5	25.0 [111.2]	44.0 [195.7]

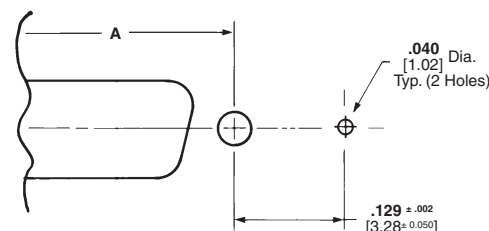
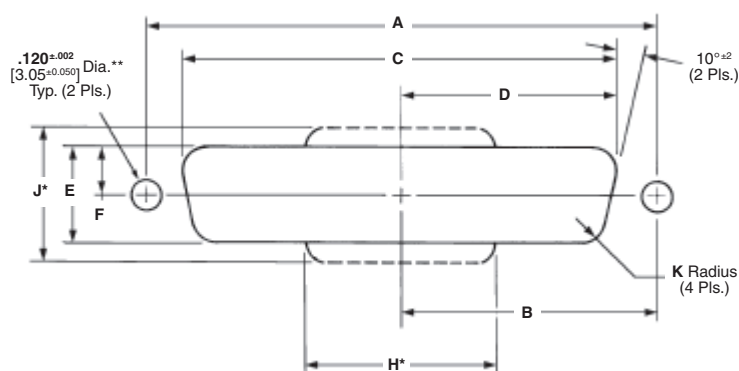
## Plug/Receptacle Mating and Panel Mounting Specifications

### Plug/Receptacle Mating



The .265 [6.73] dimension is required to assure full mating of connector halves. This dimension must be taken into consideration when determining the method of mounting, panel thickness, etc.

### Panel Mounting



**Cutout for Rear Mount and Short Latching Block**

**Note:** Cutouts are for either plug or receptacle, front or rear panel mount.

Shell Size (Pos.)	Mounting Method Front/Rear Panel	Dimensions								
		A	B	C	D	E	F	H*	J*	K
1 (9)	Front	.984 24.99	.492 12.50	.874 22.20	.437 11.10	.513 13.03	.257 6.53	—	—	.083 2.11
	Rear	.984 24.99	.492 12.50	.806 20.47	.403 10.24	.449 11.41	.225 5.72	.550 13.97	.750 19.05	.132 3.35
2 (15)	Front	1.312 33.33	.656 16.66	1.202 30.53	.601 15.27	.513 13.03	.257 6.53	—	—	.083 2.11
	Rear	1.312 33.33	.656 16.66	1.134 28.80	.567 14.40	.449 11.41	.225 5.72	.730 18.54	.750 19.05	.132 3.35
3 (25)	Front	1.852 47.04	.926 23.52	1.743 44.27	.872 22.15	.513 13.03	.257 6.53	—	—	.083 2.11
	Rear	1.852 47.04	.926 23.52	1.674 42.52	.837 21.26	.449 11.41	.225 5.72	1.275 32.39	.750 19.05	.132 3.35
4 (37)	Front	2.500 63.50	1.250 31.75	2.391 60.73	1.196 30.38	.513 13.03	.257 6.53	—	—	.083 2.11
	Rear	2.500 63.50	1.250 31.75	2.326 59.08	1.163 29.54	.449 11.41	.225 5.72	1.920 46.05	.750 16.13	.132 3.35
5 (50)	Front	2.406 61.11	1.203 30.56	2.297 58.34	1.149 29.19	.623 15.82	.312 7.93	—	—	.083 2.11
	Rear	2.406 61.11	1.203 30.56	2.218 56.34	1.109 28.17	.555 14.10	.278 7.06	1.753 44.52	.750 19.05	.132 3.35

\*Panel cutout configuration with H and J dimensions provides clearance for mounting connectors with cable clamps.

\*\*This dimension is .190 ± .002 [4.83 ± 0.05] when posted connectors with fixed female screwlocks are rear-panel mounted.

Most plugs and receptacles can be mounted to a panel from either the front or rear, using a variety of accessory hardware. Posted receptacles are rear panel mounted only. Typical examples are shown below.



**Typical Front-Panel Mounted Subminiature D Plug**



**Typical Rear-Panel Mounted Subminiature D Receptacle**

## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles

### Product Facts

- Stacked pcb connectors save board real estate
- Wide choice of configurations available
- Front Metal-Shells for EMI/RFI shielding
- Housings made of UL 94V-0 rated thermoplastic
- Plug connectors have built-in grounding indents
- Choice of 4-40 threaded insert or female screwlock mating hardware
- Hybrid styles provide maximum selectivity and permit mixing of signal speeds
- Packaged in plastic trays for ease of handling
- Recognized under the Component Program of the Underwriters Laboratories, Inc.  File No. 28476
- Certified by Canadian Standards Association, File No. LR 7189 

See customer drawings for pcb layouts.



AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors are members of the complete line of AMPLIMITE Subminiature D Connector family which has been accepted by the electronic industry for their rugged design and ease of application.

Stacked connectors add the advantage of reducing overall board real estate normally consumed by individual pcb connectors. The versatility of the AMPLIMITE HD-20 line enables you to select the stacked connector best suited for your specific application.

AMPLIMITE HD-20 Stacked Connectors, Series II offer a high degree of performance and a reduced cost. The line consists of:

- Receptacle over Receptacle in 9/9, 15/15, 25/25 and 37/37 contact positions

- Plug over Plug in 9/9, 15/15, 25/25 and 37/37 contact positions
- Receptacle over Plug in 9/9, 15/15, 25/25 and 37/37 contact positions
- Plug over Receptacle in a total of 9/9, 15/15, 25/25 and 37/37 contact positions

Configurations are available with a choice of mounting hardware—4-40 threaded inserts and female screwlocks.

### Hybrid and Mixed Styles

AMPLIMITE Hybrid and Mixed Stacked Connectors combine a variety of subminiature D connector configurations into a single connector. This permits mixing signal speeds with a substantial reduction in pc board real estate.

All AMPLIMITE Stacked and Mixed PCB Connectors fea-

ture front metal-shells for EMI/RFI shielding, with housings made of UL 94V-0 approved material. The series offers gold plating in 30µ", 10µ" and gold flash on the mating end and tin plating on the termination end, with the entire contact nickel underplated.

Due to the versatility of the AMPLIMITE Hybrid and Mixed lines of connectors any combination with an AMPLIMITE HD-20 Connector as the top connector, HD-22 High Density, and AMPLIMITE .050 Series as the bottom connector can be provided based on your application requirements. Contact TE for additional information.



## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors

### Hybrid and Mixed Styles (Continued)

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Shell**—Steel, tin plated

**Contacts**:

**Pins**—Brass

**Sockets**—Phosphor bronze

#### Contact Plating:

**A**—Gold flash on mating end, tin on solder tails with overall nickel plating underneath

**B**—.000010 [0.00025] gold on mating end, tin on solder tails with overall nickel underplate

**C**—.000030 [0.00076] gold on mating end, tin on solder tails with overall nickel underplate

**Boardlocks**—Brass, tin plated

**Female Screwlocks**—Brass, nickel plated

**Threaded Inserts**—Brass, tin plated

**Brackets**—Zinc

#### Technical Documents:

**Product Specification**  
108-57517

See customer drawings for printed circuit board layouts.



Upper D-Sub	Lower D-Sub	Dimensions			Contact Finish	Mounting Hardware	Part Number
		D	E	F			
9p Plug / 9p Plug		1.22 30.95	.984 24.99	.750 19.05	A	4-40 inserts	1734279-1
		1.22 30.95	.984 24.99	.750 19.05	B	4-40 inserts	1734279-2
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 inserts	1734279-3
		1.22 30.95	.984 24.99	.750 19.05	A	4-40 fem s/l	1734280-1
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 fem s/l	1734280-3
		1.22 30.95	.984 24.99	.750 19.05	A	4-40 inserts	1734282-1
	9p Plug / 9p Rcpt.	1.22 30.95	.984 24.99	.750 19.05	B	4-40 inserts	1734282-2
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 inserts	1734282-3
		1.22 30.95	.984 24.99	.750 19.05	A	4-40 inserts	1734285-1
		1.22 30.95	.984 24.99	.750 19.05	B	4-40 inserts	1734285-2
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 inserts	1734285-3
		1.22 30.95	.984 24.99	.750 19.05	A	4-40 fem s/l	1734286-1
9p Rcpt. / 9p Rcpt.		1.22 30.95	.984 24.99	.750 19.05	B	4-40 fem s/l	1734286-2
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 fem s/l	1734286-3
		1.22 30.95	.984 24.99	.750 19.05	A	4-40 inserts	1734207-1
		1.22 30.95	.984 24.99	.750 19.05	B	4-40 inserts	1734207-2
		1.22 30.95	.984 24.99	.750 19.05	C	4-40 inserts	1734207-3
		1.55 39.30	1.31 33.30	.750 19.05	A	4-40 inserts	1-1734279-1
15p Plug / 15p Plug		1.55 39.30	1.31 33.30	.750 19.05	B	4-40 inserts	1-1734279-2
		1.55 39.30	1.31 33.30	.750 19.05	C	4-40 inserts	1-1734279-3
		1.55 39.30	1.31 33.30	.750 19.05	A	4-40 inserts	1-1734282-1
	15p Plug / 15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	B	4-40 inserts	1-1734282-2
		1.55 39.30	1.31 33.30	.750 19.05	C	4-40 inserts	1-1734282-3
		1.55 39.30	1.31 33.30	.750 19.05			

Continued on next page

**Note:** All part numbers are RoHS compliant.

## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles

Upper D-Sub	Lower D-Sub	Dimensions			Contact Finish	Mounting Hardware	Part Number
		D	E	F			
15p Rcpt.	/ 15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	A	4-40 inserts	1-1734285-1
		1.55 39.30	1.31 33.30	.750 19.05	B	4-40 inserts	1-1734285-2
		1.55 39.30	1.31 33.30	.750 19.05	C	4-40 inserts	1-1734285-3
		1.55 39.30	1.31 33.30	.750 19.05	A	4-40 fem s/l	1-1734286-1
		1.55 39.30	1.31 33.30	.750 19.05	B	4-40 fem s/l	1-1734286-2
		1.55 39.30	1.31 33.30	.750 19.05	C	4-40 fem s/l	1-1734286-3
15p Rcpt.	/ 15p Plug	1.55 39.30	1.31 33.30	.750 19.05	A	4-40 inserts	1-1734207-1
		1.55 39.30	1.31 33.30	.750 19.05	B	4-40 inserts	1-1734207-2
		1.55 39.30	1.31 33.30	.750 19.05	C	4-40 inserts	1-1734207-3
25p Plug	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	A	4-40 inserts	2-1734279-1
		2.09 53.10	1.85 47.04	.750 19.05	B	4-40 inserts	2-1734279-2
		2.09 53.10	1.85 47.04	.750 19.05	C	4-40 inserts	2-1734279-3
25p Plug	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	A	4-40 inserts	2-1734282-1
		2.09 53.10	1.85 47.04	.750 19.05	B	4-40 inserts	2-1734282-2
		2.09 53.10	1.85 47.04	.750 19.05	C	4-40 inserts	2-1734282-3
25p Rcpt.	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	A	4-40 inserts	2-1734285-1
		2.09 53.10	1.85 47.04	.750 19.05	B	4-40 inserts	2-1734285-2
		2.09 53.10	1.85 47.04	.750 19.05	C	4-40 inserts	2-1734285-3
		2.09 53.10	1.85 47.04	.750 19.05	A	4-40 fem s/l	2-1734286-1
		2.09 53.10	1.85 47.04	.750 19.05	B	4-40 fem s/l	2-1734286-2
		2.09 53.10	1.85 47.04	.750 19.05	C	4-40 fem s/l	2-1734286-3
25p Rcpt.	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	A	4-40 inserts	2-1734207-1
		2.09 53.10	1.85 47.04	.750 19.05	B	4-40 inserts	2-1734207-2
		2.09 53.10	1.85 47.04	.750 19.05	C	4-40 inserts	2-1734207-3
37p Plug	/ 37p Plug	2.73 69.34	2.500 63.50	.750 19.05	A	4-40 inserts	3-1734279-1
		2.73 69.34	2.500 63.50	.750 19.05	B	4-40 inserts	3-1734279-2
		2.73 69.34	2.500 63.50	.750 19.05	C	4-40 inserts	3-1734279-3
37p Plug	/ 37p Rcpt.	2.73 69.34	2.500 63.50	.750 19.05	A	4-40 inserts	3-1734282-1
		2.73 69.34	2.500 63.50	.750 19.05	B	4-40 inserts	3-1734282-2
		2.73 69.34	2.500 63.50	.750 19.05	C	4-40 inserts	3-1734282-3

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**Note:** All part numbers are RoHS compliant.



## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors

### Hybrid and Mixed Styles (Continued)

Upper D-Sub	Lower D-Sub	Dimensions			Contact Finish	Mounting Hardware	Part Number
		D	E	F			
37p Rcpt. / 37p Rcpt.		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	A	4-40 inserts	3-1734285-1
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	B	4-40 inserts	3-1734285-2
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	C	4-40 inserts	3-1734285-3
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	A	4-40 fem s/l	3-1734286-1
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	B	4-40 fem s/l	3-1734286-2
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	C	4-40 fem s/l	3-1734286-3
37p Rcpt. / 37p Plug		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	A	4-40 inserts	3-1734207-1
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	B	4-40 inserts	3-1734207-2
		<b>2.73</b> 69.34	<b>2.500</b> 63.50	<b>.750</b> 19.05	C	4-40 inserts	3-1734207-3

**Note:** All part numbers are RoHS compliant.

## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles

### HD-20 Front Metal Shell, Right-Angle AMPLIMITE Connectors

**Material and Finish:**

**Housings and Pin Spacer**—94V-0 rated thermoplastic, black

**Contacts:**

**Sockets**—Phosphor bronze or brass

**Contact Plating**—

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

**Shell**—Steel, tin plated

**Boardlocks**—Copper alloy, plated tin

**Bracket**—Steel



9 Position HD-20 Receptacle over  
15 Position HD-22 Receptacle  
Part No. 1734870-1 (without Female Screwlocks)  
Part No. 1-1734870-1 (as shown, with Female Screwlocks)

**Note:** All part numbers are RoHS compliant.

## AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles (Continued)

### HD-20 Front Metal Shell, Right-Angle Connectors

#### Material and Finish:

**Housing**—94V-0 rated PBT, see table

**Contacts**—Phosphor bronze or brass

#### HD22 Receptacle

##### Contact Plating—

Gold flash on contact area, tin on solder tail area, all over nickel underplated

**Audio Jack**—.000100 [.00254] min. tin over nickel underplate



**15 Position HD-20 Receptacle  
over 3 Position Audio Plug**

Description	Part Number	PC 99
With female screwlocks & color-coded audio <sup>1</sup>	1734287-2	—
With color-coded audio <sup>1</sup>	1-1734287-2	—
With color-coded audio <sup>1</sup>	—	1-1734287-3
With female screwlocks & back cover & color-coded audio <sup>1</sup>	—	2-1734287-3
With female screwlocks & color-coded audio <sup>1</sup>	—	3-1734287-3

<sup>1</sup> Color coded audio:  
Audio line in — light blue  
Audio line out — lime  
Microphone — pink

### High-Rise Connectors

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, burgundy

**Contacts**—Phosphor bronze

#### Contact Plating:

**A**—.000010 [.000254] gold on mating area, tin on solder tails, all over nickel



**High-Rise 25 Position  
HD-20 Receptacle**

Dimension S	Plating Code	Part Number	PC 99
.236 6.00	A	—	2-1734024-3

**Note:** All part numbers are RoHS compliant.

## AMPLIMITE 2000 Subminiature D Connectors

### Product Facts

- Flame retardant housings, rated up to 105°C
- Front metal-shell design
- Duplex plated gold flash or .000015 [0.00038] min. gold on mating end, tin on solder end, all over nickel underplate
- With boardlocks and 4-40 threads or female screwlocks
- Designed to Office Class II
- 9, 15 & 25 right-angle plugs and receptacles
- Recognized under the Component Program of the Underwriters Laboratories, Inc.  File No. E28476

See customer drawings for circuit board layout.



### AMPLIMITE 2000

Subminiature D connectors represent the latest breakthrough in economical Subminiature D connector design.

Presently available in the more popular sizes — 9-, 15- and 25-receptacles and plugs with a .318 [8.08] printed circuit board foot-print, the AMPLIMITE 2000 connector line features front metal-shell RFI/EMI protection, flame retardant housings with integral 4-40 threads, boardlocks, and duplex plated gold-over-nickel contacts.

## AMPLIMITE 2000 Subminiature Connectors (Continued)

### HD-20 Front Metal Shell Right-Angle Connectors

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Shell**—Steel, nickel plated

**Contacts:**

**Pins**—Brass

**Sockets**—Phosphor bronze

#### Contact Plating:

**A**—Gold flash on mating end, tin on solder tails with overall nickel underplate

**B**—.000015 [0.00038] gold on mating end, tin on solder tails with overall nickel underplate

**Boardlocks**—Brass, tin or tin plated

**Female Screwlocks**—Brass, nickel plated

**Threaded Inserts**—Brass, nickel plated

#### Technical Documents:

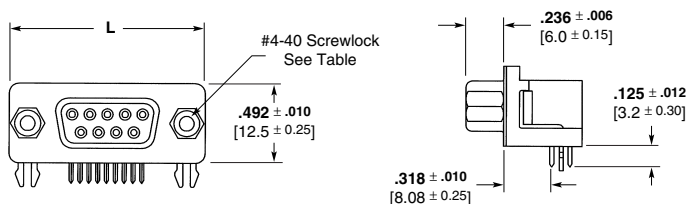
##### Product Specification

108-57541



Typical Plug

Shell Size	Contact Finish	Dimension L Ref.	With Female Screwlocks	With 4-40 Threaded Inserts
9	A	1.210	1734351-1	1734352-1
	B	30.80	1734351-2	1734352-2
15	A	1.540	—	1734360-1
	B	39.20	—	1734360-2
25	A	2.090	Pending Obs.	Pending Obs.
	B	53.10	Pending Obs.	Pending Obs.



Typical Receptacle

Shell Size	Contact Finish	Dimension L Ref.	With Female Screwlocks	With 4-40 Threaded Inserts
9	A	1.210	1734354-1	1734348-1
	B	30.80	1734354-2	1734348-2
15	A	1.540	1734357-1	1734355-1
	B	39.20	1734357-2	1734355-2
25	A	2.090	1734349-1	1734350-1
	B	53.10	1734349-2	1734350-2

**Note:** All part numbers are RoHS compliant.

## HD-20 and HD-22 Slimline Connectors

### 2 Rows of Solderails

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Shell**—Low carbon steel, nickel plated

**Contacts**—Phosphor bronze or brass

**Contact Plating**—Gold flash on mating area; .000100 [0.00254] min. tin on solder tail area; overall .000050 [0.00127] min. nickel underplate

**Boardlocks**—Brass, tin plated over nickel underplate

**Threaded Inserts**—Brass, nickel plated

#### Technical Documents:

**Product Specification**  
108-57541



**9 Position Plug**  
**Part Number 1734340-1**



**15 Position VESA Receptacle HD-22**  
**Part Number 1734341-1**

### 1 Row of Solderails

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Shell**—Low carbon steel, nickel plated

**Contacts**—Brass

**Contact Plating**—.000015 [0.00038] min. gold on mating area; .000100 [0.00254] min. tin on solder tail area; overall .000050 [0.00127] min. nickel underplate

**Boardlocks**—Brass, tin plated over nickel underplate

**Threaded Inserts**—Brass, nickel plated

#### Technical Documents:

**Product Specification**  
108-57541



**15 Position VESA Receptacle HD-22**  
**Part Number 1734335-1**

**Note:** All part numbers are RoHS compliant.



## HD-22 Right-Angle Posted Subminiature D Connectors

### Product Facts

- Flame retardant thermoplastic housing material, UL94V-0 rated
- Low cost front metal shell design compatible with full metal-shell connectors
- Integral boardlock versions secure connectors to pc boards prior to soldering
- Contacts available in platings to satisfy different applications
- Integral threaded inserts and screwlocks available
- Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476



### HD-22 Front Metal Shell .350 [8.89] PCB Footprint



Plug



Receptacle

## HD-22 Right-Angle Posted Subminiature D Connectors (Continued)

### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

▲ VESA Std. 15-position Receptacle  
Housing Material—Thermoplastic  
94V-0 blue per VESA Std.

**Shell**—Steel, nickel plated

**Contacts**

**Pins**—Brass

**Sockets**—Phosphor bronze

### Contact Plating—

Gold flash, .000010 [0.00025] or  
.000030 [0.00076] on mating end, tin on  
solder tails with overall nickel underplate

**Boardlocks**—Brass, tin plated

**Female Screwlocks**—Brass, nickel  
plated

**Threaded Inserts**—Brass, nickel  
plated

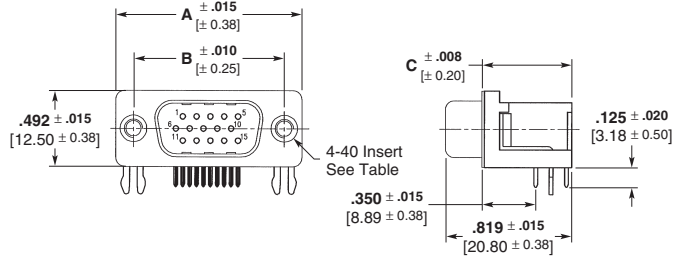
### Technical Documents:

**Product Specification**—108-1092

**Application Specification**—  
114-13198

See customer drawings for printed  
circuit board layouts.

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



Right-Angle Plug

No. of Contact Positions	Dimensions			Mounting Hardware	PCB Mounting Style	Part Numbers		
	A	B	C			Gold Flash	15μ" Gold	30μ" Gold
15	1.212 30.81	.984 24.99	.582 14.80	4-40 inserts	board locks	—	5749767-2	5749767-1
	1.212 30.81	.984 24.99	.582 14.80	4-40 screw locks	board locks	5749768-3	5749768-2	5749768-1
26	1.543 39.20	1.312 33.32	.583 14.81	4-40 inserts	board locks	5749769-3	5749769-2	5749769-1
44	2.089 53.05	1.852 47.04	.593 15.06	4-40 inserts	board locks	5749771-3	5749771-2	5749771-1
62	2.732 69.40	2.500 63.50	.593 15.06	4-40 inserts	board locks	5749639-3	5749639-2	5749639-1
78	2.638 67.00	2.400 61.00	.693 17.60	4-40 screw locks	board locks	5749234-3	5749234-2	—



Right-Angle Receptacle

No. of Contact Positions	Dimensions			Mounting Hardware	PCB Mounting Style	Part Numbers		
	A	B	C			Gold Flash	15μ" Gold	30μ" Gold
15	1.212 30.81	.984 25.00	.630 16.00	4-40 inserts	board locks	1-1734530-1	1-1734530-2	1-1734530-3
	1.212 30.81	.984 25.00	.630 16.00	4-40 screw locks	board locks	1734530-1	1734530-2	1734530-3
15 VESA	1.212 30.81	.984 25.00	.630 16.00	4-40 inserts	board locks	1734344-1	—	2-1734344-3
	1.212 30.80	.984 25.00	.630 16.00	4-40 screw locks	board locks	Pending Obs.	Pending Obs.	Pending Obs.
26	1.543 39.20	1.311 44.32	.593 15.06	4-40 inserts	board locks	2-5748481-3	2-5748481-2	5748481-5
	1.543 39.20	1.311 44.32	.593 15.06	4-40 screw locks	board locks	2-5748481-5	2-5748481-4	5748481-6
44	2.089 53.05	1.852 47.04	.583 14.81	4-40 inserts	board locks	2-5748482-4	2-5748482-3	5748482-5
	2.089 53.05	1.852 47.04	.583 14.81	4-40 screw locks	board locks	—	2-5748482-5	—
62	2.732 69.40	2.500 63.50	.583 14.81	4-40 inserts	board locks	2-5748394-4	2-5748394-3	5748394-5
	2.732 69.40	2.500 63.50	.583 14.81	4-40 screw locks	board locks	2-5748394-6	2-5748394-5	5748394-6
78	2.638 67.00	2.400 61.00	.693 17.60	4-40 inserts	board locks	2-5748483-1	2-5748483-0	5748483-5
	2.638 67.00	2.400 61.00	.693 17.60	4-40 screw locks	board locks	—	2-5748483-2	5748483-6

**Note:** All part numbers are RoHS compliant.

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

Post Size—.026 [0.66] Dia. Plug



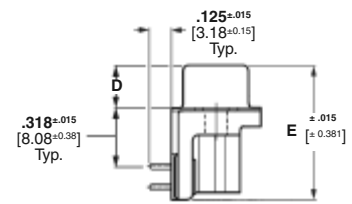
With Grounding Indents  
and Grounding Straps



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					
							Without Boardlocks			With Boardlocks		
		A	B	D	E		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	5747250-4	5747250-6	5747840-2	5747840-4	5747840-6
						B	—	5747250-3	—	—	5747840-3	5747840-5
2	15	1.541 39.14	1.312 33.33	.235 5.97	.733 18.62	A	5747236-2	5747236-4	5747236-6	5747841-2	5747841-4	5747841-6
						B	—	5747236-4	—	—	5747841-3	—
3	25	2.088 53.04	1.852 47.04	.230 5.84	.738 18.75	A	5747238-2	5747238-4	5747238-6	5747842-2	5747842-4	5747842-6
						B	5747238-2	5747238-3	—	—	5747842-3	5747842-5
4	37	2.729 69.32	2.500 63.50	.230 5.84	.740 18.80	A	—	5747252-4	—	5747843-2	5747843-4	5747843-6
						B	—	—	—	—	5747843-3	—

**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.      Receptacle



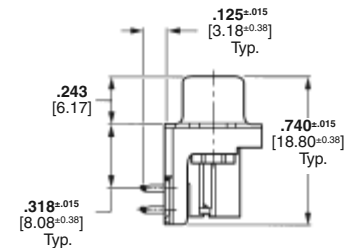
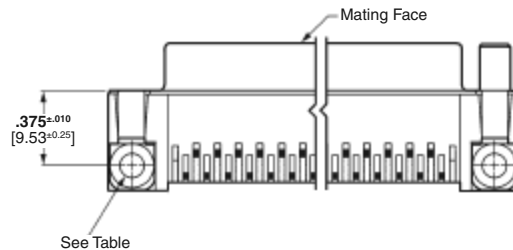
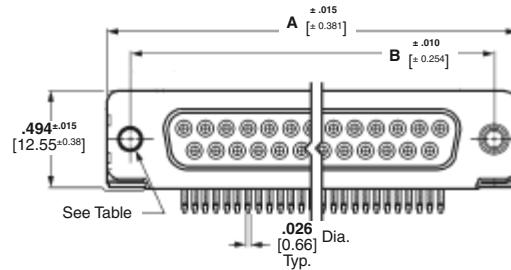
With Grounding Straps



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  
**Socket Contacts (Posted)**—Phosphor bronze, 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

.318 [8.08] Board Mount Footprint

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Receptacle Part Numbers					
					Without Boardlocks			With Boardlocks		
		A	B		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	A	5745781-2	5745781-4	5745781-6	5747844-2	5747844-4	5747844-6
				B	—	5745781-3	—	—	5747844-3	5747844-5
2	15	1.541 39.14	1.312 33.33	A	5745782-2	5745782-4	5745782-6	—	5747845-4	5747845-6
				B	—	—	—	—	5747845-3	5747845-5
3	25	2.088 53.04	1.852 47.04	A	5745783-2	5745783-4	5745783-6	5747846-2	5747846-4	5747846-6
				B	—	5745783-3	5745783-5	—	5747846-3	5747846-5
4	37	2.729 69.32	2.500 63.50	A	5745784-2	5745784-4	5745784-6	—	5747847-4	5747847-6

- Notes:** 1. All receptacle connectors are preloaded with size 20 DF posted socket 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



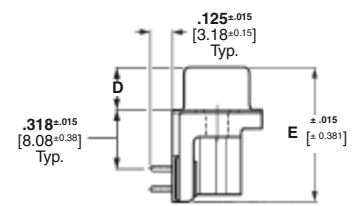
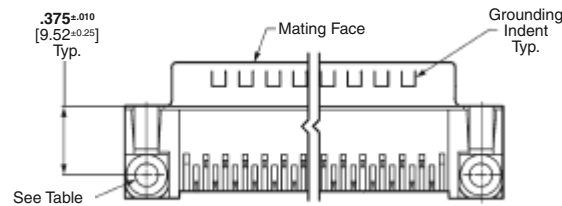
With Grounding Indents and Grounding Straps



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

### Technical Documents:

**Product Specification**—108-40025

**Application Specification**—114-40010

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	1.213	.984	.235	.733	A	5788792-1	5788793-1
		30.81	24.99	5.97	18.62	B	5788792-2	5788793-2
3	25	2.088	1.852	.230	.738	A	5788794-1	5788795-1
		53.04	47.04	5.84	18.75	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.

**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.

Receptacle



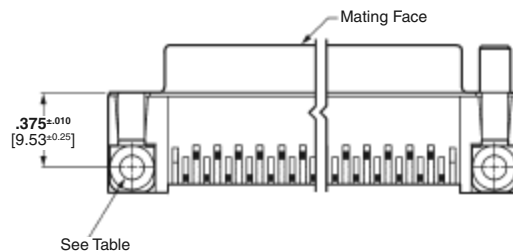
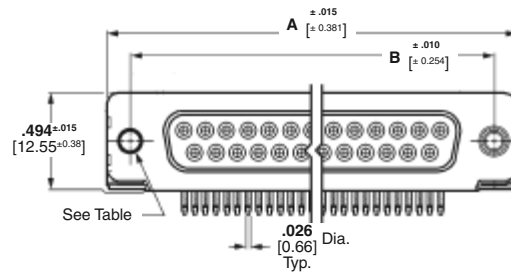
With Grounding Straps



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

**Socket Contacts (Posted)**—Phosphor bronze, 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

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Receptacle Part Numbers		
		A	B		Without Boardlocks	With Boardlocks	
					With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213	.984	A	5788803-1	5788796-1	5788797-1
		30.81	24.99	B	—	5788796-2	5788797-2
2	15	1.541	1.312	A	—	5788798-1	5788799-1
		39.14	33.33	B	—	5788798-1	—
3	25	2.088	1.852	A	—	5788800-1	5788801-1
		53.04	47.04	B	—	5788800-2	5788801-2
4	37	2.729	2.500	A	—	5788802-1	—
		69.32	63.50				

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket 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 Full Metal-Shell Right-Angle Posted Connectors 454 Mount

Post Size—.025 [0.64] Sq.

Receptacle



### Material and Finish:

**Shell**—Steel, tin plated

**Insert**—94V-0 rated thermoplastic, black

**Contacts (Posted):**

**Pin**—Brass

**Socket**—Phosphor bronze

### Contact Plating:

**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**—114-40013

See customer drawings for printed circuit board layouts.



Shell Size	No. of Contact Positions	Dimensions				Contact Finish (Plating Code)	Part Number
		A	B	D	E		
1	9	1.213 30.81	.984 24.99	.915 23.24	.125 3.18	A	5745438-4
					.220 5.59	B	5745438-3
2	15	1.541 39.14	1.312 33.33	.915 23.24	.125 3.18	A	5745439-4
					.220 5.59	A	5745439-2
3	25	2.088 53.04	1.852 47.04	.919 23.34	.125 3.18	A	5745440-4
					.220 5.59	B	5745440-1
4	37	2.729 69.32	2.500 63.50	.919 23.34	.125 3.18	A	5745441-4
					.220 5.59	B	—

- Notes:**
- All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.
  - .125 [3.18] post length is recommended for pc board thickness of .093 [2.36] max.; .220 [5.59] post length is recommended for pc board thickness of .125 [3.18] max.

**Note:** All part numbers are RoHS compliant.

## HD-20 Full Metal-Shell Right-Angle Posted Connectors 454 Mount (Continued)

Post Size—.025 [0.64] Sq.

Plug



Without Grounding Indents



With Grounding Indents

### Material and Finish:

**Shell**—Steel, tin plated

**Insert**—94V-0 rated thermoplastic, black

**Contacts (Posted):**

**Pin**—Brass

**Socket**—Phosphor bronze

### Contact Plating:

**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**—114-40013



Shell Size	No. of Contact Positions	Dimensions					Contact Finish (Plating Code)	Part Numbers With Grounding Indents
		A	B	C	D	E		
1	9	1.213 30.81	.984 24.99	.235 5.97	.915 23.24	.125 3.18	A	5745434-8
						.220 5.59	B	—
2	15	1.541 39.14	1.312 33.33	.235 5.97	.915 23.24	.125 3.18	A	5745435-8
						.220 5.59	A	—
3	25	2.088 53.04	1.852 47.04	.230 5.84	.919 23.34	.125 3.18	A	—
						.220 5.59	B	5745436-3
4	37	2.729 69.32	2.500 63.50	.230 5.84	.919 23.34	.125 3.18	A	5745437-8
						.220 5.59	B	5745437-3

- Notes:**
1. All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.
  2. .125 [3.18] post length is recommended for pc board thickness of .093 [2.36] max.; .220 [5.59] post length is recommended for pc board thickness of .125 [3.18] max.

**Note:** All part numbers are RoHS compliant.

.454 [11.53] Board Mount Footprint

## HD-20 Front Metal-Shell Right-Angle Posted Connectors 478 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.

Shell Size	No. of Contact Positions	Dimensions			Contact Finish (Plating Code)	Plug Part Number With Boardlocks	
		A	B	D		With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	.235 5.97	A	5747848-4	—
3	25	2.088 53.04	1.852 47.04	.230 5.84	A	—	5747850-6

- Notes:**
- All plug connectors are preloaded with size 20 DF posted pin contacts.
  - Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
  - 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 478 Mount (Continued)

Post Size—.026 [0.66] Dia.

### Receptacle



With 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

**Socket Contacts (Posted)**—Phosphor bronze, 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

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Receptacle Part Numbers	
		A	B		Without Boardlocks	With Boardlocks
					With Threaded Inserts	With Threaded Inserts
1	9	1.213 30.81	.984 24.99	A	5747418-4	5747852-4

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket 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.

.478 [12.14] Board Mount Footprint

## HD-20 Full Metal-Shell Right-Angle Posted Connectors 545 Mount

Post Size—.025 [0.64] Sq.

Plug



Without Grounding Indents



With Grounding Indents



With 4-40 Female Screwlocks



With Standard Mounting Screws



With 4-40 Female Screwlocks

### Material and Finish:

**Shell**—Steel, tin plated

**Insert**—94V-0 rated thermoplastic, black

**Female Screwlock**—Steel, zinc 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**—114-40013

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Pos.	Dimensions					Contact Finish (Plating Code)	Plug Part Numbers			
								Without Grounding Indents		With Grounding Indents	
		A	B	C	D	E		Without Grounding Indents		With Grounding Indents	
								With Standard Mounting Screws*	With Standard Mounting Screws	With Standard Mounting Screws	With Female Screwlocks
1	9	1.213 30.81	.984 24.99	.494 12.55	.235 5.99	1.025 26.04	A	5745351-2	5745351-4	5747197-4	
2	15	1.541 39.14	1.312 33.33	.494 12.55	.235 5.99	1.025 26.04	A	—	5745352-4	—	
		B	5745352-1	—	—						
3	25	2.088 53.04	1.852 47.04	.494 12.55	.230 5.84	1.029 26.14	A	—	—	5747022-2	
4	37	2.729 69.32	2.500 63.50	.494 12.55	.230 5.84	1.029 26.14	A	—	5745354-4	—	
5	50	2.635 66.93	2.406 61.11	.605 15.37	.230 5.84	1.149 29.19	A	—	5745355-4	5747497-4	

\*These plugs can be made available with female screwlocks, consult TE.

- Notes:**
1. All plugs are preloaded with size 20 DF posted pin contacts.
  2. Recommended pc board thickness is .093 [2.36] max.
  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 Full Metal-Shell Right-Angle Posted Connectors 545 Mount (Continued)

Post Size—.025 [0.64] Sq.

Receptacle



With 4-40  
Female Screwlocks

### Material and Finish:

**Shell**—Steel, tin plated

**Insert**—94V-0 rated thermoplastic, black

**Female Screwlock**—Steel, zinc plated

**Socket Contacts (Posted)**—Phosphor bronze, duplex plated as follows:

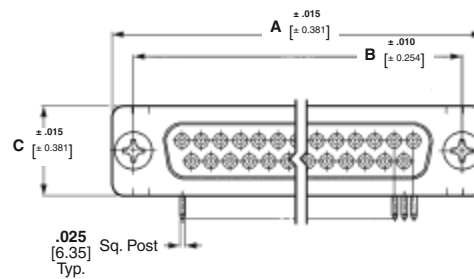
**A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

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

### Technical Documents:

**Product Specification**—108-40025

**Application Specification**—114-40013



Shell Size	No. of Contact Positions	Dimensions				Contact Finish (Plating Code)	Receptacle Part Numbers	
		A	B	C	E		With Standard Mounting Screws	With Female Screwlocks
1	9	1.213	.984	.494	1.033	A	5745112-2	5747020-2
		30.81	24.99	12.55	26.24	B	—	5747020-1
2	15	1.541	1.312	.494	1.033	A	5745113-2	5747021-2
		39.14	33.33	12.55	26.24			
3	25	2.088	1.852	.494	1.033	A	5745114-2	5745536-2
		53.04	47.04	12.55	26.24			
4	37	2.729	2.500	.494	1.033	A	5745115-2	—
		69.32	63.50	12.55	26.24			
5	50	2.635	2.406	.605	1.153	A	5745116-2	5747193-2
		66.93	61.11	15.37	29.29	B	5745116-1	5747193-1

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

**Note:** All part numbers are RoHS compliant.

.545 [13.84] Board Mount Footprint



## HD-20 Front Metal-Shell Right-Angle Posted Connectors 590 Mount

Post Size—.026 [0.66] Dia. Plug



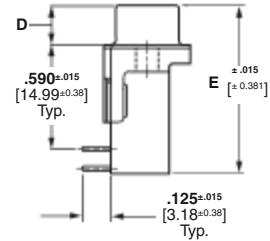
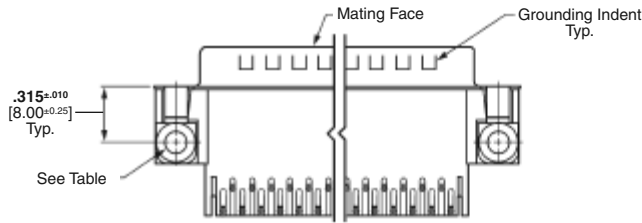
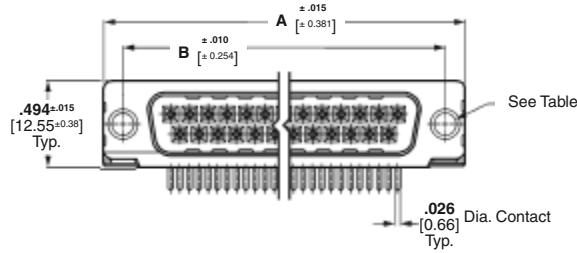
With Grounding Indents and Grounding Straps



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

Shell Size	No. of Contact Positions	Dimensions				Contact Finish (Plating Code)	Plug Part Numbers		
		A	B	D	E		Without Boardlocks	With Boardlocks	
							Without Boardlocks	With Boardlocks	
							With Threaded Inserts	With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	.235 5.97	.965 24.51	A B	5745990-4 5745990-3	5747832-4 5747832-3	5747832-6 —
2	15	1.541 39.14	1.312 33.33	.235 5.97	.965 24.51	A	—	5747833-4	5747833-6
3	25	2.088 53.04	1.852 47.04	.230 5.84	.970 24.64	A	5745994-4	5747834-4	5747834-6
4	37	2.729 69.32	2.500 63.50	.230 5.84	.972 24.69	A	—	5747835-4	5747835-6

**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 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With 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

**Socket Contacts (Posted)**—Phosphor bronze, 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

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Receptacle Part Numbers			
		A	B		Without Boardlocks		With Boardlocks	
					With Threaded Inserts	With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	A	5745988-4	5745988-6	5747836-4	5747836-6
2	15	1.541 39.14	1.312 33.33	A	5745984-4	—	5747837-4	—
3	25	2.088 53.04	1.852 47.04	A	—	5745992-6	5747838-4	5747838-6
				B	5745992-3	—	5747838-3	—
4	37	2.729 69.32	2.500 63.50	A	5745996-4	—	5747839-4	—

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket 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.

.590 [14.99] Board Mount Footprint

## HD-20 All-Plastic Right-Angle Posted Connectors 318 Mount

### Receptacle—With Boardlocks



With Threaded Insert



With Threaded Insert



With Fixed Female Screwlock



#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Eyelets**—Brass, tin plated

**Threaded Inserts**—Zinc

**Female Screwlock**—Zinc

**Boardlock**—Copper alloy, tin plated

**Socket Contacts (Posted)**—

Phosphor bronze, duplex plated as follows:

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

#### Technical Documents:

**Product Specification**—108-1226

**Application Specification**—114-40027

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers	
		A	B		With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.222 31.04	.984 24.99	A	—	5748979-1
3	25	2.090 53.09	1.852 47.04	A	5748901-1	5748981-1

Consult TE for availability.

**Notes:** 1. All receptacle connectors are preloaded with size 20 DF posted socket contacts.

2. Recommended pc board thickness is .062 [1.58].

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 All-Plastic Right-Angle Posted Connectors 318 Mount (Continued)

### Plug



With Threaded Insert

#### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Eyelets**—Brass, tin plated

**Threaded Inserts**—Zinc

**Boardlock**—Copper alloy, tin plated

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

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

**B**—.000010 [0.00025] min. gold on mating end, tin on termination end, with entire contact nickel underplated



#### Technical Documents:

**Product Specification**—108-1226

**Application Specification**—114-40027

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers With Threaded Inserts	
		A	B		With Boardlocks	Without Boardlocks
2	15	1.550 39.37	1.312 33.32	A	5748904-1	—
3	25	2.090 53.09	1.852 47.04	B	—	5748865-3

Consult TE for availability.

**Notes:** 1. All plug connectors are preloaded with size 20 DF posted pin contacts.

2. Recommended pc board thickness is .062 [1.58].

3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

**Note:** All part numbers are RoHS compliant.

.318 [8.08] Board Mount Footprint

## HD-20 All-Plastic Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle—Without Boardlocks



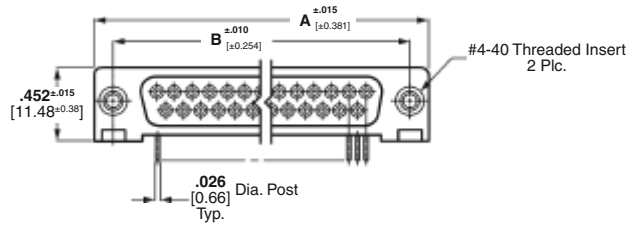
With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock



### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Threaded Inserts**—Zinc, chromate coated

**Female Screwlocks**—Zinc, chromate coated

**Socket Contacts (Posted)**—Phosphor bronze, 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**—114-40015

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers		
		A	B		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
1	9	1.213	.984	A	5745394-2	5745395-2	—
		30.81	24.99	B	—	—	5745131-1
2	15	1.541	1.312	A	—	5745396-2	5745396-2
		39.14	33.32	B	—	—	—
3	25	2.088	1.852	A	5745392-2	5745397-2	5745132-2
		53.04	47.04	B	—	—	—

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket contacts.
  2. Recommended pc board thickness is .093 [2.36].
  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 All-Plastic Right-Angle Posted Connectors 590 Mount

### Receptacle—With Boardlocks



With Threaded Insert



With Fixed Female Screwlock



### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Eyelets**—Brass, tin plated

**Threaded Inserts**—Zinc

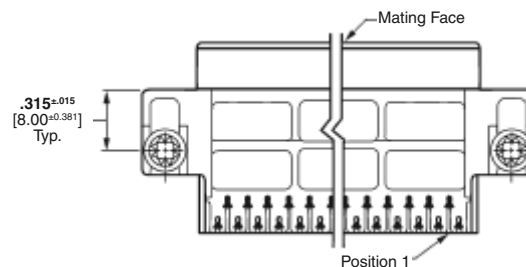
**Female Screwlock**—Zinc

**Boardlock**—Copper alloy, tin plated

**Socket Contacts (Posted)**—Phosphor bronze, 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**—108-1226

**Application Specification**—114-40027

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers	
		A	B		With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	B	5748907-2	—
3	25	2.088 53.04	1.852 47.04	A	5748909-1	5748989-1

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket contacts.
  2. Recommended pc board thickness is .062 [1.58].
  3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

**Note:** All part numbers are RoHS compliant.

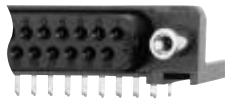


## HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia. Receptacle—Without Boardlocks



With Threaded Insert



With Female Screwlock



### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Threaded Inserts**—Zinc, chromate coated

**Female Screwlocks**—Zinc, chromate coated

**Socket Contacts (Posted)**—Phosphor bronze, 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**—114-40015

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers		
		A	B		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
1	9	1.213	.984	A	5747459-4	5747459-6	5747459-2
		30.81	24.99	B	5747459-3	5747459-5	5747459-1
2	15	1.541	1.312	A	5747460-4	5748948-1	5747460-2
		39.14	33.32	B	5747460-3	5747460-5	5747460-1
3	25	2.088	1.852	A	5747461-4	5747461-6	5747461-2
		53.04	47.04	B	5747461-3	5747461-5	5747461-1
4	37	2.729	2.500	A	5747462-4	5747462-6	5747462-2
		69.32	63.50				
5	50	2.635	2.406	A	—	—	5206973-1
		66.93	61.11	B	—	—	5206973-2

- Notes:**
1. All receptacle connectors are preloaded with size 20 DF posted socket contacts.
  2. Recommended pc board thickness is .093 [2.36] max.
  3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.
  4. Dimension is 1.120 [28.45] for size 5 d-sub.

**Note:** All part numbers are RoHS compliant.

## HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

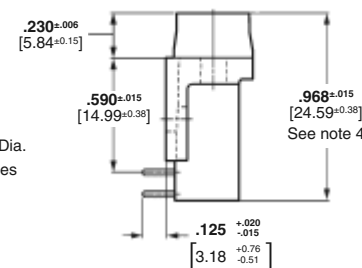
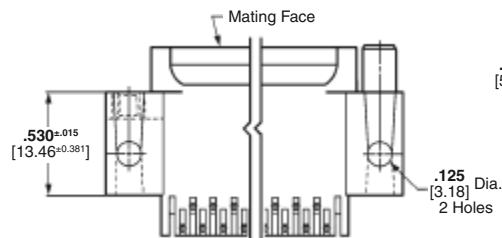
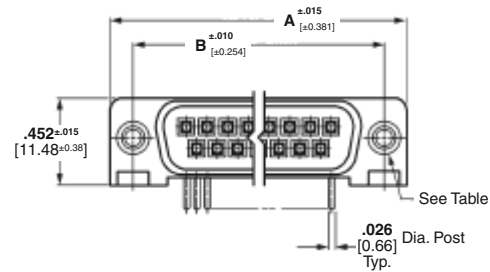
Plug—Without Boardlocks



With Threaded Insert



With Female Screwlocks



### Material and Finish:

**Housing**—94V-0 rated thermoplastic, black

**Threaded Inserts**—Zinc, chromate coated

**Female Screwlocks**—Zinc, chromate coated

**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**—114-40015

See customer drawings for printed circuit board layouts.

Shell Size	No. of Contact Positions	Dimensions		Contact Finish (Plating Code)	Part Numbers		
		A	B		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
1	9	1.213	.984	A	5747467-4	—	5747467-2
		30.81	24.99	B	—	—	5747467-1
2	15	1.541	1.312	A	5748872-1	5748952-1	5747468-2
		39.14	33.32	B	—	—	5748826-1
3	25	2.090	1.852	A	5748873-1	5748953-1	5748826-1
		53.09	47.04	B	—	—	5748826-2
4	37	2.729	2.500	A	—	—	5747470-2
		69.32	63.50	B	—	—	5206971-1
5	50	2.635	2.406	A	—	—	5206971-1
		66.93	61.11	B	—	—	5206971-2

- Notes:**
1. All plug connectors are preloaded with size 20 DF posted pin contacts.
  2. Recommended pc board thickness is .093 [2.36] max.
  3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.
  4. Dimension is 1.115 [28.32] for size 5 d-sub, GPL244.

**Note:** All part numbers are RoHS compliant.

.590 [14.99] Board Mount Footprint

## Right-Angle Mounting Connectors — European Standard Footprint



### Material and Finish:

**Front Shell**—Steel, tin plated

**Housing**—Black glass-filled polyester

**Flammability**—UL 94V-0

**Contact Material**—

**Pin**—Phosphor bronze

**Socket**—Phosphor bronze

**Contact Area Plating**—0.76µm Gold

**Current Rating**—6A max.

**Insulation Resistance**—  
5000 MΩ min.

**Dielectric Strength**—1000V AC min.

**Temperature Rating**—  
–55°C to +105°C

### Plug with Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	338168-2	1-338168-2	3-338168-2	2-338168-2	4-338168-2
15	338169-2	1-338169-2	3-338169-2	2-338169-2	4-338169-2
25	338170-2	1-338170-2	3-338170-2	2-338170-2	4-338170-2
37	338171-2	1-338171-2	3-338171-2	2-338171-2	4-338171-2

### Socket with Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	106505-2	1-106505-2	3-106505-2	2-106505-2	4-106505-2
15	106506-2	1-106506-2	3-106506-2	2-106506-2	4-106506-2
25	106507-2	1-106507-2	3-106507-2	2-106507-2	4-106507-2
37	106508-2	1-106508-2	3-106508-2	2-106508-2	4-106508-2

### Plug without Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-338168-2	6-338168-2	8-338168-2	7-338168-2	9-338168-2
15	5-338169-2	6-338169-2	8-338169-2	7-338169-2	9-338169-2
25	5-338170-2	6-338170-2	8-338170-2	7-338170-2	9-338170-2
37	5-338171-2	6-338171-2	8-338171-2	7-338171-2	9-338171-2

### Socket without Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-106505-2	6-106505-2	8-106505-2	7-106505-2	9-106505-2
15	5-106506-2	6-106506-2	8-106506-2	7-106506-2	9-106506-2
25	5-106507-2	6-106507-2	8-106507-2	7-106507-2	9-106507-2
37	5-106508-2	6-106508-2	8-106508-2	7-106508-2	9-106508-2

**Note:** All part numbers are RoHS compliant.

## Right-Angle Mounting Connectors — Eurostyle Footprint



### Material and Finish:

**Front Shell**—Steel, tin plated

**Housing**—Grey thermoplastic PBTP

**Flammability**—UL 94V-0

**Contact Material**—

**Pin**—Copper alloy

**Socket**—Copper alloy

**Contact Area Plating**—Nickel/Gold  
(>250 mating cycles)

**Current Rating**—2.2A

**Insulation Resistance**—  
5000 MΩ min.

**Dielectric Strength**—1000V AC

**Temperature Rating**—  
-55°C to +125°C

### Plug with Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-1393480-9	8-1393480-5	1393481-5	7-1393480-4	9-1393480-4
15	6-1393480-0	8-1393480-6	3-1392010-3	7-1393480-5	9-1393480-5
25	On Enquiry	8-1393480-7	1393481-6	7-1393480-6	9-1393480-6
37	On Enquiry	8-1393480-8	3-1392010-4	7-1393480-7	On Enquiry

### Socket with Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-1393480-5	8-1393480-1	9-1393480-9	6-1393480-7	9-1393480-0
15	5-1393480-6	8-1393480-2	1393481-1	6-1393480-8	9-1393480-1
25	5-1393480-7	8-1393480-3	1393481-2	6-1393480-9	9-1393480-2
37	On Enquiry	8-1393480-4	3-1392010-7	7-1393480-0	On Enquiry

### Plug without Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	2-1393480-1	4-1393480-0	5-1393480-2	3-1393480-2	On Enquiry
15	2-1393480-2	4-1393480-1	5-1393480-3	3-1393480-3	On Enquiry
25	2-1393480-3	4-1393480-2	5-1393480-4	2-1392010-8	On Enquiry
37	2-1393480-4	4-1393480-3	3-1392010-5	3-1392010-6	On Enquiry

### Socket without Boardlocks — Solder Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	1-1393480-7	3-1393480-6	4-1393480-7	2-1393480-8	On Enquiry
15	1-1393480-8	3-1393480-7	4-1393480-8	2-1393480-9	On Enquiry
25	1-1393480-9	3-1393480-8	4-1393480-9	3-1393480-0	On Enquiry
37	2-1393480-0	3-1393480-9	5-1393480-0	3-1392010-8	On Enquiry

**Note:** All part numbers are RoHS compliant.

## Standard Density Press Fit Termination, Right-Angle Mounting — European Standard Footprint



### Material and Finish:

**Front Shell**—Steel, tin plated

**Housing**—Black thermoplastic  
PBTP/PPS

**Flammability**—UL 94V-0

**Contact Material**—

**Pin**—Copper alloy

**Socket**—Copper alloy

**Contact Area Plating**—Nickel/Gold  
(>250 mating cycles)

**Current Rating**—2.2A

**Insulation Resistance**—  
5000 M $\Omega$  min.

**Dielectric Strength**—1000V AC

**Temperature Rating**—  
–55°C to +125°C

### Plug with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	—	3-1393481-2	3-1393481-8	2-1393481-5	On Enquiry
15	—	3-1393481-3	3-1393481-9	2-1393481-6	On Enquiry
25	—	3-1393481-4	2-1393497-7	2-1393481-7	On Enquiry
37	—	2-1392010-7	4-1393481-0	2-1393481-8	On Enquiry

### Socket with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	—	2-1393481-9	3-1393481-6	2-1393481-1	On Enquiry
15	—	3-1393481-0	2-1393497-4	2-1393481-2	On Enquiry
25	—	3-1393481-1	2-1393497-5	2-1393481-3	On Enquiry
37	—	2-1392010-6	2-1393497-6	2-1393481-4	On Enquiry

## Standard Density Press Fit Termination, Right-Angle Mounting — Eurostyle Footprint



### Material and Finish:

**Front Shell**—Steel, tin plated

**Housing**—Black thermoplastic  
PBTP/PPS

**Flammability**—UL 94V-0

**Contact Material**—

**Pin**—Copper alloy

**Socket**—Copper alloy

**Contact Area Plating**—Nickel/Gold  
(>250 mating cycles)

**Current Rating**—2.2A

**Insulation Resistance**—  
5000 M $\Omega$  min.

**Dielectric Strength**—1000V AC

**Temperature Rating**—  
–55°C to +125°C

### Plug with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	—	On Enquiry	3-1393482-0	1-1393482-4	2-1393482-1
15	—	On Enquiry	3-1393482-2	3-1393497-0	4-1483489-2
25	—	On Enquiry	3-1393482-4	1-1393482-5	On Enquiry
37	—	On Enquiry	3-1393482-5	3-1393497-1	On Enquiry

### Socket with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	—	1-1393482-6	2-1393482-2	1-1393482-2	2-1393482-0
15	—	1-1393482-8	2-1393482-4	1-1393482-3	On Enquiry
25	—	3-1392010-9	2-1393482-6	9-1393487-2	On Enquiry
37	—	4-1392010-0	2-1393482-8	2-1393497-9	On Enquiry

**Note:** All part numbers are RoHS compliant.

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