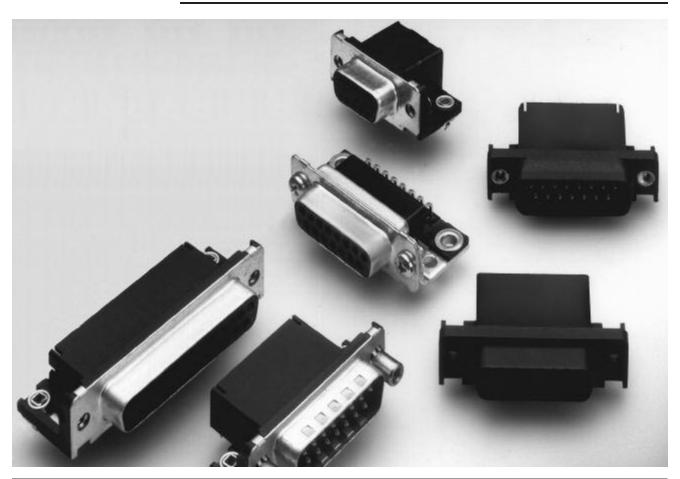


Right-Angle Posted Connectors



Connector Density	Туре	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	Front Metal-Shell,	15 26 44	.350	Threaded Inserts	Boardlocks	Duplex (0.000030 [0.00076] Gold/Tin)	.125
110 22	Receptacle	Tin Plated (Pg. 52)	44 62 78	[8.89]	Female Screwlocks		Duplex (Gold Flash/Tin)	[3.18]
		Full Metal-Shell With and Without	9 15 25 37	.454 [11.53]	Standard Screws	.120 [3.05]	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]
		d 60-63, 65-67, 131,	37 50		Female Screwlocks	Dia. Holes	Duplex (Gold Flash/Tin)	.220 [5.59]
	_		9 15 25	15 .478 25 [12.14]	.120 [3.05] Dia. Holes Threaded Inserts	.125 [3.18] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]
HD-20	Plugs and Receptacles		37	.590 [14.99]	Female Screwlocks	Boardlocks	Duplex (Gold Flash/Tin)	
					.125 [3.18] Dia. Holes		Duplex	
		All-Plastic (Pgs. 68-70, 132,	9 15	.318 [8.08]	.120 [3.05] Dia. Holes	.125 [3.18] Dia. Holes	(.000030 [0.00076] Gold/Tin)	.125
		133, 135, 136)	25 37	.590 [14.99]	Threaded Inserts	.120 [3.05] Dia. Elliptical Holes	Duplex (Gold Flash/Tin)	[3.18]
					Female Screwlocks	Boardlocks	. ,	



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

Section Contents	
HD-22 and HD-20 Contact Arrangements	40
HD-22 and HD-20 Performance Specifications	41
Plug/Receptacle Mating and Panel Mounting Specifications	42
AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors	12 10
Hybrid and Mixed Styles	
HD-20 and HD-22 Slimline Connectors	
HD-22 Right-Angle Posted Subminiature D Connectors	52, 53
HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount	54-57
HD-20 Full Metal-Shell Right-Angle Posted Connectors	
454 Mount	58, 59
HD-20 Front Metal-Shell Right-Angle Posted Connectors	
478 Mount	60, 61
HD-20 Full Metal-Shell Right-Angle Posted Connectors	
545 Mount	62, 63
HD-20 Front Metal-Shell Right-Angle Posted Connectors	0.4.05
590 Mount	64, 65
HD-20 All-Plastic Right-Angle Posted Connectors	00.00
318 Mount	66-68
HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount	60.71
Right-Angle Mounting Connectors—European Standard Footprint .	
Right-Angle Mounting Connectors—Eurostyle Footprint	
Standard Density Press Fit Termination, Right-Angle Mounting	/ 4

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

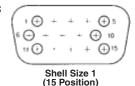
Connector Density	Туре	Style and Shell Finish	No. of Contact Positions	Footprint	Mating Hardware	Board Mounting	Contact Plating (Mating Area/ Solder Tails)	Post Length
	Receptacle over Receptacle							
HD-20	Plug over Plug	Front Metal-Shell, Tin Plated (Pgs. 144-149, 151)	9/9 15/15 25/25 37/37 (Std.)	/15 See /25 Customer /37 Drawings	Threaded Inserts	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin) (.000010 [0.00025]	.125
HD-20	Receptacle over Plug				Female Screwlocks	Boardlocks	Gold/Tin) Duplex (Gold Flash/Tin)	[3.18]
	Plug over Receptacle							

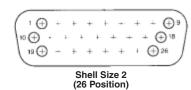


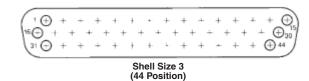
HD-22 and HD-20 Commercial Connectors (AMPLIMITE)

Contact Arrangements

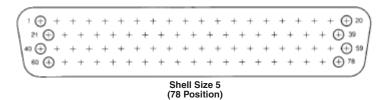
HD-22 Inserts



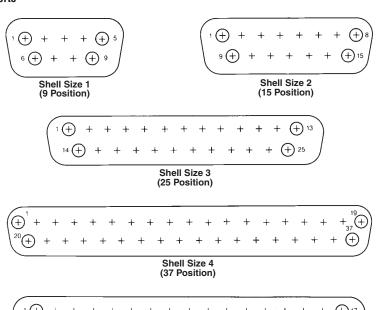








HD-20 Inserts



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

Shell Size 5 (50 Position)

18 (+)



HD-22 and HD-20 Connectors Performance Characteristics

Cable Connectors

		Connector Type	
	HDP-22	HDE-20	HDP-20
Electrical Characteristics			
Contact Current Rating (One pair of contacts)	22 AWG [0.4mm²] Wire 5.0 amperes	20 AWG [0.6mm²] 3 amperes	20 AWG [0.6mm²] 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.
Mechanical Characteristics			
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. [0.4mm²—53.4 N] 24 AWG—8 lb. [0.2mm²—35.6 N] 26 AWG—4.5 lb. [0.15mm²—20.02 N] 28 AWG—2.7 lb. [0.08mm²—12.01 N]	20 AWG—9.5 lb. [0.6mm²—42.3 N] 22 AWG—6 lb. [0.4mm²—26.7 N] 24 AWG—4 lb. [0.2mm²—17.79 N] 26 AWG—2.5 lb. [0.15mm²—11.12 N] 28 AWG—2.5 lb. [0.08mm²—11.12 N] 30 AWG—1 lb. [0.05mm²—4.45 N]	20 AWG—20 lb. [0.6mm²—89 N] 22 AWG—12 lb. [0.4mm²—53.4 N] 24 AWG—8 lb. [0.2mm²—35.6 N] 26 AWG—4.5 lb. [0.15mm²—20.02 N] 28 AWG—2.7 lb. [0.08mm²—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
Environmental Characteristics			
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
Electrical Characteristics	
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.

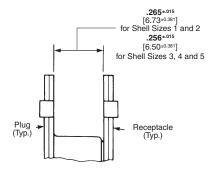
^{*}Stacked Connectors—30 milliohms (max.)
**Stacked Connectors—500 VAC min.

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



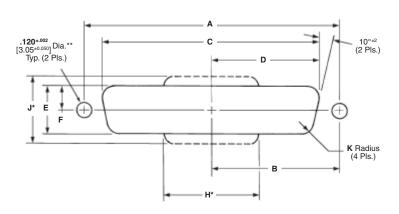
Plug/Receptacle Mating and Panel Mounting Specifications

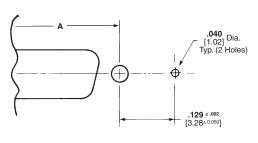
Plug/Receptacle Mating



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	Mounting Method Dimensions									
(Pos.)	Front/Rear Panel	Α	В	С	D	Е	F	H*	J*	K
1	Front	.984 24.99	.492 12.50	.874 22.20	.437 11.10	.513 13.03	.257 6.53	_	_	.083 2.11
(9)	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	Front	1.852 47.04	.926 23.52	1.743 44.27	.872 22.15	.513 13.03	.257 6.53	_	_	.083 2.11
(25)	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	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
(37)	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

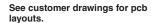
Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015



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 builtin 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





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

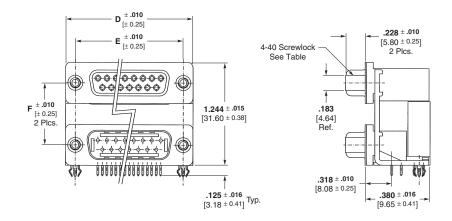
Female Screwlocks—Brass, nickel plated

Threaded Inserts—Brass, tin plated Brackets—Zinc

Technical Documents:

Product Specification 108-57517

See customer drawings for printed circuit board layouts.



Upper		Lower	ı	Dimensions	3	Contact	Mounting	Part	
D-Sub		D-Sub	D	Е	E F Finish		Hardware	Number	
			1.22 30.95	.984 24.99	.750 19.05	Α	4-40 inserts	1734279-1	
			1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734279-2	
9p Plug	/	9p Plug	1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734279-3	
ap Flug	,	ap Flug	1.22 30.95	.984 24.99	.750 19.05	Α	4-40 fem s/l	1734280-1	
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 fem s/l	1734280-3	
			1.22 30.95	.984 24.99	.750 19.05	А	4-40 inserts	1734282-1	
9p Plug	/	9p Rcpt.	1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734282-2	
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734282-3	
			1.22 30.95	.984 24.99	.750 19.05	А	4-40 inserts	1734285-1	
			1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734285-2	
On Dont	,	On Dont	1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734285-3	
9p Rcpt.	/	9p Rcpt.	1.22 30.95	.984 24.99	.750 19.05	А	4-40 fem s/l	1734286-1	
			1.22 30.95	.984 24.99	.750 19.05	В	4-40 fem s/l	1734286-2	
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 fem s/l	1734286-3	
			1.22 30.95	.984 24.99	.750 19.05	А	4-40 inserts	1734207-1	
9p Rcpt.	/	9p Plug	1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734207-2	
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734207-3	
			1.55 39.30	1.31 33.30	.750 19.05	А	4-40 inserts	1-1734279-1	
15p Plug	/	15p Plug	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734279-2	
			1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734279-3	
			1.55 39.30	1.31 33.30	.750 19.05	Α	4-40 inserts	1-1734282-1	
15p Plug	/	15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734282-2	
			1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734282-3	

Continued on next page

Note: All part numbers are RoHS compliant.

UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015



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

Upper	Lower		Dimensions	 S	Contact	Mounting	Part
D-Sub	D-Sub	D	E	F	Finish	Hardware	Number
		1.55 39.30	1.31 33.30	.750 19.05	Α	4-40 inserts	1-1734285-1
		1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734285-2
45 D .	/ 45 D /	1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734285-3
15p Rcpt.	/ 15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	А	4-40 fem s/l	1-1734286-1
		1.55 39.30	1.31 33.30	.750 19.05	В	4-40 fem s/l	1-1734286-2
		1.55 39.30	1.31 33.30	.750 19.05	С	4-40 fem s/l	1-1734286-3
		1.55 39.30	1.31 33.30	.750 19.05	А	4-40 inserts	1-1734207-1
15p Rcpt.	/ 15p Plug	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734207-2
		1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734207-3
		2.09 53.10	1.85 47.04	.750 19.05	А	4-40 inserts	2-1734279-1
25p Plug	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734279-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734279-3
		2.09 53.10	1.85 47.04	.750 19.05	А	4-40 inserts	2-1734282-1
25p Plug	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734282-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734282-3
		2.09 53.10	1.85 47.04	.750 19.05	А	4-40 inserts	2-1734285-1
		2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734285-2
2En Bont	/ OEn Bont	2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734285-3
25p Rcpt.	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	Α	4-40 fem s/l	2-1734286-1
		2.09 53.10	1.85 47.04	.750 19.05	В	4-40 fem s/l	2-1734286-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 fem s/l	2-1734286-3
		2.09 53.10	1.85 47.04	.750 19.05	Α	4-40 inserts	2-1734207-1
25p Rcpt.	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734207-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734207-3
		2.73 69.34	2.500 63.50	.750 19.05	Α	4-40 inserts	3-1734279-1
37p Plug	/ 37p Plug	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734279-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734279-3
		2.73 69.34	2.500 63.50	.750 19.05	Α	4-40 inserts	3-1734282-1
37p Plug	/ 37p Rcpt.	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734282-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734282-3

Continued on next page



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

Upper	Lower		Dimensions	3	Contact	Mounting	Part
D-Sub	D-Sub	D	E	F	Finish	Hardware	Number
		2.73 69.34	2.500 63.50	.750 19.05	А	4-40 inserts	3-1734285-1
		2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734285-2
07n Dent	/ OZn Dent	2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734285-3
37p Rcpt.	/ 37p Rcpt.	2.73 69.34	2.500 63.50	.750 19.05	А	4-40 fem s/l	3-1734286-1
		2.73 69.34	2.500 63.50	.750 19.05	В	4-40 fem s/l	3-1734286-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 fem s/l	3-1734286-3
		2.73 69.34	2.500 63.50	.750 19.05	А	4-40 inserts	3-1734207-1
37p Rcpt.	/ 37p Plug	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734207-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734207-3



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

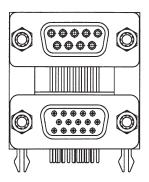
Contact Plating-

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

Shell—Steel, tin plated

 $\textbf{Boardlocks} \textcolor{red}{\longleftarrow} \textbf{Copper alloy, plated tin}$

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)



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

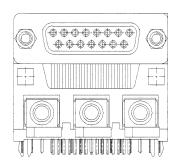
HD-20 Front Metal Shell, Right-Angle Connectors

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 ¹	1734287-2	_
With color-coded audio ¹	1-1734287-2	_
With color-coded audio ¹	_	1-1734287-3
With female screwlocks & back cover & color-coded audio ¹	_	2-1734287-3
With female screwlocks & color-coded audio ¹	_	3-1734287-3

¹ Color coded audio: Audio line in — light blue Audio line out — lime Microphone — pink

High-Rise Connectors

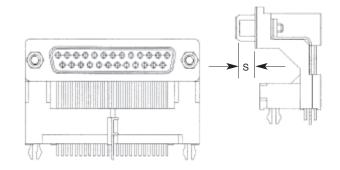
Material and Finish:

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	Α	_	2-1734024-3

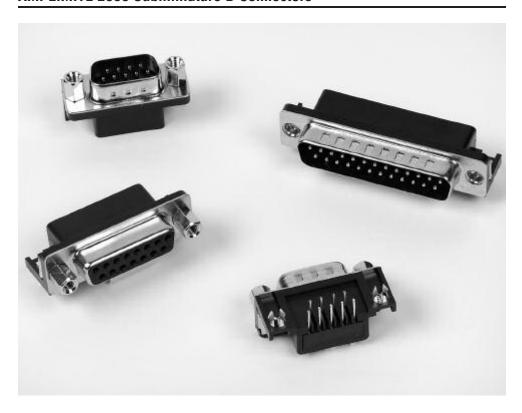


AMPLIMITE 2000 Subminiature D Connectors

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 footprint, 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-overnickel 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

#4-40 Insert See Table

#4-40 Insert See Table

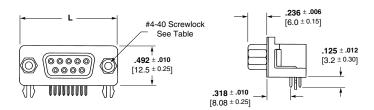
.125 ± .012

[12.5 ± 0.25]

.318 ± .010
[8.08 ± 0.25]

Typical Plug

Shell Size	Contact Finish			With 4-40 Threaded Inserts	
9	Α	1.210	1734351-1	1734352-1	
9	В	30.80	1734351-2	1734352-2	
15	Α	1.540	_	1734360-1	
15	В	39.20		1734360-2	
25	ог А 2.		Pending Obs.	Pending Obs.	
25	В	53.10	Pending Obs.	Pending Obs.	



Typical Receptacle

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

Note: All part numbers are RoHS compliant.

Catalog 82068

Revised 4-12



HD-20 and HD-22 Slimline Connectors

2 Rows of Soldertails

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

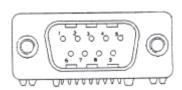
Boardlocks—Brass, tin plated over nickel underplate

Threaded Inserts—Brass, nickel plated

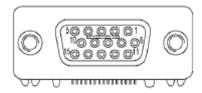
Technical Documents:

Product Specification

108-57541



9 Position Plug Part Number 1734340-1



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

1 Row of Soldertails

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





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

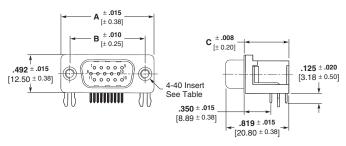
Threaded Inserts—Brass, nickel plated

Technical Documents:

Product Specification—108-1092 Application Specification— 114-13198

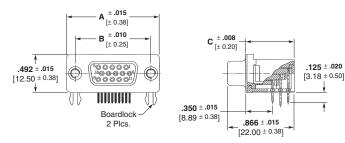
See customer drawings for printed circuit board layouts.

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



Right-Angle Plug

No. of	Dimensions		Mounting	РСВ	PCB Part Numbers			
Contact Positions	Α	A B C		Hardware	Mounting Style	Gold Flash	15µ" Gold	30μ" Gold
45	1.212 30.81	.984 24.99	.582 14.80	4-40 inserts	board locks	_	5749767-2	5749767-1
15	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	D	imensio	ns	Mounting	Mounting PCB -		Part Numbers	S
Contact Positions	A	В	С	Hardware	Mounting Style	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
15	1.212 30.81	.984 25.00	.630 16.00	4-40 screw locks	board locks	1734530-1	1734530-2	1734530-3
<u> </u>	1.212 30.81	.984 25.00	.630 16.00	4-40 inserts	board locks	1734344-1	_	2-1734344-3
15 VESA	1.212 30.80	.984 25.00	.630 16.00	4-40 screw locks	v locks board locks		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
20	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
44	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
02	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
70	2.638 67.00	2.400 61.00	.693 17.60	4-40 screw locks	board locks	_	2-5748483-2	5748483-6



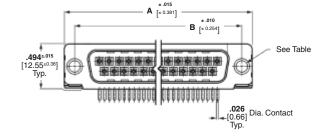
HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount

Post Size—.026 [0.66] Dia.





With Grounding Indents and Grounding Straps

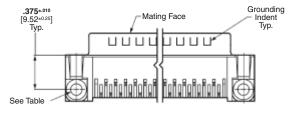


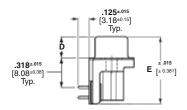


With Threaded Insert



With Fixed Female Screwlock





Material and Finish:

Front Shell—Steel, tin plated
Housing—94V-0 rated thermoplastic,

Eyelets—Brass, tin plated
Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

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

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

							Plug Part Numbers					
01	Ober No. of		Dimon	oiono		Contact	Wi	Without Boardlocks With Boardlocks				
Shell Size	Contact Positions	ns A B D E $^{ ext{(Plating S)}}_{ ext{Code)}}$ $^{ ext{M}}_{ ext{M}}$		With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks			
	9	1.213	.984	.235	.733	Α	5747250-2	5747250-4	5747250-6	5747840-2	5747840-4	5747840-6
	9	30.81	24.99	5.97	18.62	В	_	5747250-3	_	_	5747840-3	5747840-5
2	15	1.541	1.312	.235	.733	Α	5747236-2	5747236-4	5747236-6	5747841-2	5747841-4	5747841-6
2	15	39.14	33.33	5.97	18.62	В	_	5747236-4	_	_	5747841-3	_
3	25	2.088	1.852	.230	.738	Α	5747238-2	5747238-4	5747238-6	5747842-2	5747842-4	5747842-6
3	25	53.04	47.04	5.84	18.75	В	5747238-2	5747238-3	_	_	5747842-3	5747842-5
4	37	2.729	2.500	.230	.740	Α	_	5747252-4	_	5747843-2	5747843-4	5747843-6
4	37	69.32	63.50	5.84	18.80	В	_	_	_	_	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.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With Grounding Straps

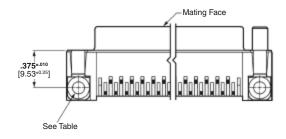


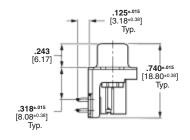
With Threaded Insert



With Fixed Female Screwlock

A [±0.05] B (±0.024) B (±0.024) B (±0.024) B (±0.026) Dia. Typ.





Material and Finish:

Front Shell—Steel, tin plated
Housing—94V-0 rated thermoplastic,
black

Eyelets—Brass, tin plated

 $\textbf{Threaded Inserts} \color{red} - \textbf{Zinc}$

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

					Receptacle Part Numbers							
	No. of	Dimen	Dimensions		W	/ithout Boardlo	ocks	With Boardlocks				
Shell Size	Contact Positions	A	B	Finish (Plating Code)	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	.984	Α	5745781-2	5745781-4	5745781-6	5747844-2	5747844-4	5747844-6		
	30.81	30.81	24.99	В	_	5745781-3	_	_	5747844-3	5747844-5		
2	15	1.541	1.312	Α	5745782-2	5745782-4	5745782-6	_	5747845-4	5747845-6		
2	15	39.14	33.33	В	_	_	_	_	5747845-3	5747845-5		
0	05	2.088	1.852	Α	5745783-2	5745783-4	5745783-6	5747846-2	5747846-4	5747846-6		
3	25	53.04	47.04	В	_	5745783-3	5745783-5	_	5747846-3	5747846-5		
4	37	2.729 69.32	2.500 63.50	Α	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.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Plug



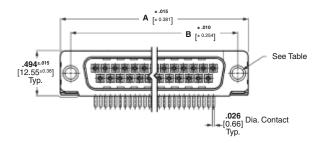
With Grounding Indents and Grounding Straps

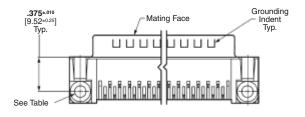


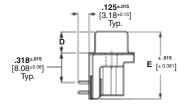
With Threaded Insert



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

 $\textbf{Female Screwlock} \color{red} \hspace{-0.5cm} - \hspace{-0.5cm} \textbf{Zinc}$

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	No. of		Dimensions				Plug Part Numbers With Boardlocks	
Size	Contact Positions	Α	В	D	E	Finish (Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks
1	4 0	1.213	.984		.733 18.62	Α	5788792-1	5788793-1
'	9	30.81	24.99			В	5788792-2	5788793-2
	3 25 2.088 53.04	1.852	.230	.738	Α	5788794-1	5788795-1	
3		53.04	47.04	5.84	18.75	В	5788794-2	_

Notes: 1. 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.
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



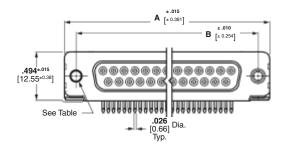
With Grounding Straps

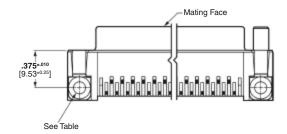


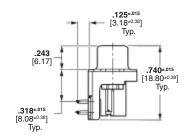
With Threaded Insert



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 fol-

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

					Receptacle Part Numbers				
Shell	Chall No. of	Dime	nsions	Contact Finish	Without Boardlocks	With Boardlocks			
Size	Contact Positions	Α	В	(Plating Code)	With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks		
-1	9	1.213	.984	Α	5788803-1	5788796-1	5788797-1		
1	1 9	30.81	24.99	В	_	5788796-2	5788797-2		
0	45	1.541 1.312	Α	_	5788798-1	5788799-1			
2	15	39.14	33.33	В	_	5788798-1	_		
	O.F.	2.088	1.852	Α	_	5788800-1	5788801-1		
3	25	53.04	47.04	В	_	5788800-2	5788801-2		
4	37	2.729 69.32	2.500 63.50	Α	_	5788802-1	_		

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

- 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.



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:

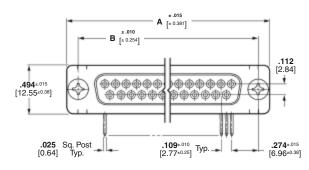
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

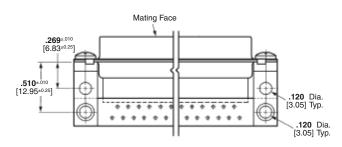
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

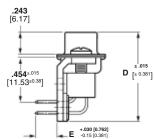
Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40013

See customer drawings for printed circuit board layouts.







Shell Size	No. of		Dime	ensions		Contact Finish	Part		
Shell Size	Contact Positions	Α	В	D	E	(Plating Code)	Number		
					.125	Α	5745438-4		
4	9	1.213	.984	.915	3.18	В	5745438-3		
1	30.81 24.99 23.24	.220 5.59	В	5745438-1					
2	15	15	15	1.541	1.312	915	.125 3.18	А	5745439-4
2		39.14	33.33	23.24	.220 5.59	А	5745439-2		
3	25	2.088	1.852	.919	.125 3.18	А	5745440-4		
3	25	53.04	47.04	23.34	.220 5.59	В	5745440-1		
4	27	2.729	2.500	.919	.125 3.18	А	5745441-4		
4	37	69.32	63.50	23.34	.220 5.59	В	_		

Notes: 1. All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with

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.



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

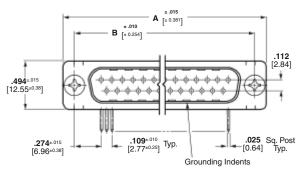
Contact Plating:

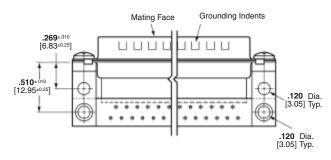
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

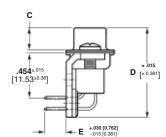
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40013







Dart Numbers

	No. of			Dimension		Contact Finish	Part Numbers		
Shell Size	Contact Positions	A	В	C	D	E	(Plating Code)	With Grounding Indents	
						.125	Α	5745434-8	
1	9	1.213	.984	.235	.915	.915	3.18	В	_
'	9	30.81	24.99	24.99 5.97 2	23.24	.220 5.59	В	_	
2	15	1.541	1.312	.235	.915	.125 3.18	Α	5745435-8	
2	15	39.14	39.14 33.33 5	5.97	23.24	.220 5.59	Α	_	
3	3 25	2.088	1.852	.230	.919	.125 3.18	Α	_	
3	25	53.04	47.04	5.84	23.34	.220 5.59	В	5745436-3	
4	37	2.729	2.500	.230	.919	.125 3.18	Α	5745437-8	
4	3/	69.32	63.50	5.84	23.34	.220 5.59	В	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.



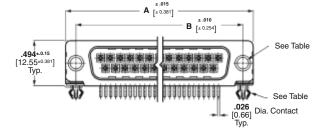
HD-20 Front Metal-Shell Right-Angle Posted Connectors 478 Mount

Post Size—.026 [0.66] Dia.





With Grounding Indents and Grounding Straps







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:

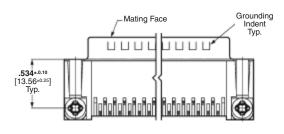
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

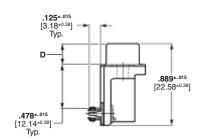
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40010

See customer drawings for printed circuit board layouts.





						Plug Par	rt Number
Shell Size	No. of		Dimension	ıs	Contact Finish (Plating Code)	With Boardlocks	
	Contact Positions	Α	В	D		With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	.235 5.97	А	5747848-4	_
3	25	2.088 53.04	1.852 47.04	.230 5.84	Α	_	5747850-6

Notes: 1. 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.



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)—

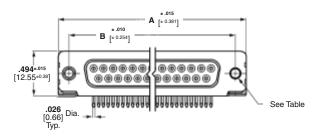
Phosphor bronze, duplex plated as follows:

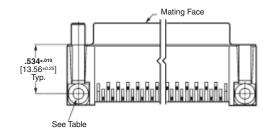
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

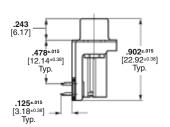
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40010







				_	Receptacle Part Numbers		
Shell	No. of	Dimensions		Contact Finish	Without Boardlocks	With Boardlocks	
Size	Contact Positions	Α	В	(Plating Code)	With Threaded Inserts	With Threaded Inserts	
1	9	1.213 30.81	.984 24.99	А	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.
- Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



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

Post Size—.025 [0.64] Sq.

Plug



Without Grounding Indents

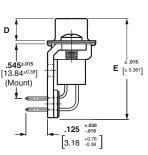


With Grounding Indents



With 4-40 Female Screwlocks

B [± 0.254] Sq. Post [6.35] _ Typ. Grounding Indents See Table .600±.010 [15.24±0.25] **.120** [3.05] Dia. Typ. Typ. **.120** [3.05] Dia. Typ.



With Standard Mounting Screws

Material and Finish:

Shell—Steel, tin plated Insert—94V-0 rated thermoplastic,

Female Screwlock—Steel, zinc

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

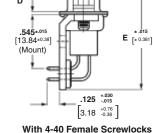
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

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.



With 4-40 Female Screwlocks

								Plug Part Numbers			
Shell Size	No. of Contact	Dimensions					Contact Finish (Plating	Finish Grounding	With Groundir	With Grounding Indents	
	Pos.	Α	В	С	D	E	Code)	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	Α	5745351-2	5745351-4	5747197-4	
2	15	1.541	1.312	.494	.235	1.025	Α	_	5745352-4	_	
2	15	39.14	33.33	12.55	5.99	26.04	В	5745352-1	_	_	
3	25	2.088 53.04		.494 12.55	.230 5.84	1.029 26.14	Α	_	_	5747022-2	
4	37	2.729 69.32		.494 12.55	.230 5.84	1.029 26.14	Α	_	5745354-4	_	
5	50		2.406 61.11	.605 15.37	.230 5.84	1.149 29.19	Α	_	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.



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,

Female Screwlock—Steel, zinc plated

Socket Contacts (Posted)-

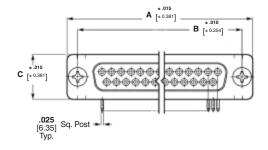
Phosphor bronze, duplex plated as follows:

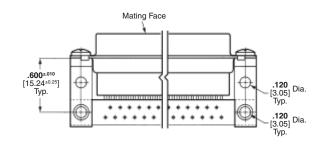
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

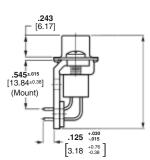
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification-114-40013







Shell	No. of Contact	Dimensions				Contact Finish	Receptacle Part Numbers	
Size	Positions	Α	В	С	E	(Plating Code)	With Standard Mounting Screws	With Female Screwlocks
	0	1.213	.984	.494	1.033	Α	5745112-2	5747020-2
ı	9	30.81	24.99	12.55	5 26.24	В	_	5747020-1
2	15	1.541 39.14	1.312 33.33	.494 12.55	1.033 26.24	Α	5745113-2	5747021-2
3	25	2.088 53.04	1.852 47.04	.494 12.55	1.033 26.24	Α	5745114-2	5745536-2
4	37	2.729 69.32	2.500 63.50	.494 12.55	1.033 26.24	Α	5745115-2	_
5	E0.	2.635	2.406	.605	1.153	Α	5745116-2	5747193-2
5	50	66.93	61.11	15.37	29.29	R	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.



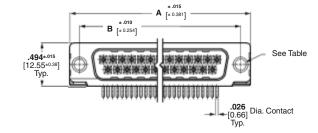
HD-20 Front Metal-Shell Right-Angle Posted Connectors 590 Mount

Post Size—.026 [0.66] Dia.

Plug



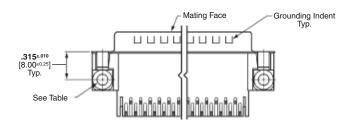
With Grounding Indents and Grounding Straps

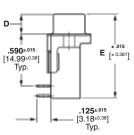






With Fixed Female Screwlock





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:

 $\textbf{Product Specification} \color{red} -108\text{-}40025$

Application Specification—

114-40010

						Plug	Plug Part Numbers		
No. of Contact Positions	Dimensions				Contact	Without Boardlocks	With Boardlocks		
	Α	В	D	E	(Plating Code)	With Threaded Inserts	With Threaded Inserts	With Fixed Female Screwlocks	
0	1,213	.984	.235	.965	Α	5745990-4	5747832-4	5747832-6	
9	30.81	24.99	5.97	24.51	В	5745990-3	5747832-3	_	
15	1.541 39.14	1.312 33.33	.235 5.97	.965 24.51	А	_	5747833-4	5747833-6	
25	2.088 53.04	1.852 47.04	.230 5.84	.970 24.64	А	5745994-4	5747834-4	5747834-6	
37	2.729 69.32	2.500 63.50	.230 5.84	.972 24.69	А	_	5747835-4	5747835-6	
	9 15 25	Contact Positions A 9 1.213 30.81 15 1.541 39.14 25 2.088 53.04 27 2.729	Contact Positions A B 9 1.213 30.81 .984 24.99 15 1.541 39.14 1.312 39.14 25 2.088 53.04 1.852 47.04 27 2.729 2.500	Contact Positions A B D 9 1.213 30.81 .984 24.99 .235 5.97 15 1.541 39.14 1.312 33.33 .235 5.97 25 2.088 53.04 1.852 47.04 .230 5.84 27 2.729 2.500 .230	Contact Positions A B D E 9 1.213 30.81 .984 24.99 .235 5.97 .965 24.51 15 1.541 39.14 1.312 33.33 2.95 5.97 .965 2.51 25 2.088 53.04 1.852 47.04 .230 5.84 .970 24.61 27 2.729 2.500 .230 .972	Contact Positions A B D E Finish (Plating Code)	Contact Positions	Contact Positions	

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.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With Grounding Straps





With Fixed Female Screwlock

Material and Finish:

Front Shell—Steel, tin plated
Housing—94V-0 rated thermoplastic,
hlack

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Socket Contacts (Posted)—

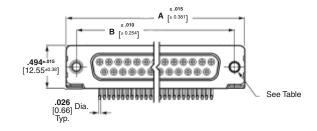
Phosphor bronze, duplex plated as follows:

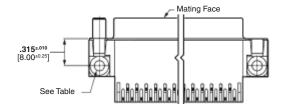
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

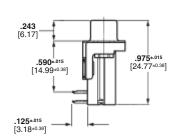
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40010







		Dilliensions		Contact Finish	Receptacle Part Numbers				
Shell	No. of				Without I	Boardlocks	With Bo	pardlocks	
Size	Contact Positions	Α	В	(Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks	
1	9	1.213 30.81	.984 24.99	Α	5745988-4	5745988-6	5747836-4	5747836-6	
2	15	1.541 39.14	1.312 33.33	Α	5745984-4	_	5747837-4	_	
0	05	2.088	1.852	Α	_	5745992-6	5747838-4	5747838-6	
3	25	53.04	47.04	В	5745992-3	_	5747838-3	_	
4	37	2.729 69.32	2.500 63.50	Α	5745996-4	_	5747839-4	_	

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

- 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.



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

Receptacle—With Boardlocks



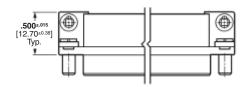
With Threaded Insert

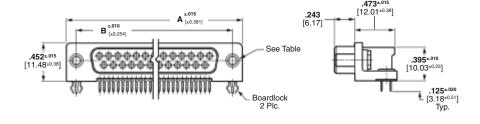


With Threaded Insert



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.

	Mating Face
.375±015 [9.52±0.381] — Typ.	Position 1

	No. of			Contact	Part Numbers	
Shell Size	Contact	Dimensions A B		Finish (Plating	With Threaded	With Fixed Female
	Positions	А	Ь	Code)	Inserts	Screwlocks
1	9	1.222 31.04	.984 24.99	Α	_	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.



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

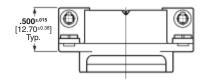
Pin Contacts (Posted)—Copper alloy, duplex plated as follows: **A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire

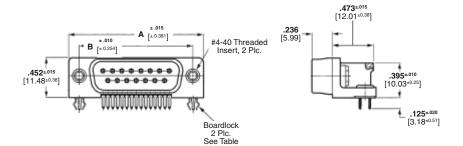
contact nickel underplated **B**—.000010 [0.00025] min. gold on mating end, tin on termination end, with entire contact nickel underplated

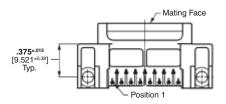
Technical Documents:

Product Specification—108-1226 Application Specification— 114-40027

See customer drawings for printed circuit board layouts.







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



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

Socket Contacts (Posted)-

Phosphor bronze, duplex plated as follows:

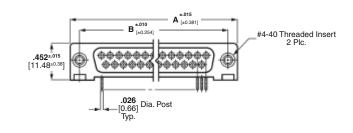
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

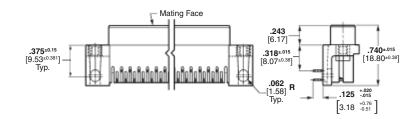
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025
Application Specification—
114-40015

See customer drawings for printed circuit board layouts.





				Contact		Part Numbers			
Shell Size	No. of Contact Positions	Dimer A	B B	Finish (Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes		
4	9	1.213	.984 24.99	Α	5745394-2	5745395-2	_		
	9	30.81		В	_	_	5745131-1		
	15	1.541	1.312	Α	_	5745396-2	5745396-2		
2	2 15 39.14	39.14	33.32	В	_	_	_		
3	0E	2.088	1.852	Α	5745392-2	5745397-2	5745132-2		
	25	53.04	47.04	В	_	_	_		

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

Recommended pc board thickness is .093 [2.36].

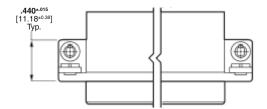
3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount

Receptacle—With Boardlocks



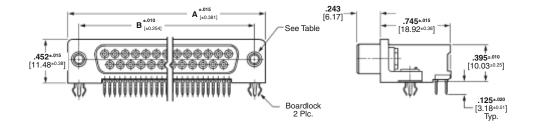




With Threaded Insert



With Fixed Female Screwlock



Material and Finish:

Housing—94V-0 rated thermoplastic, black

Evelets—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

.315±015 [8.00±0.381] Typ.

Technical Documents:

Product Specification—108-1226 Application Specification— 114-40027

See customer drawings for printed circuit board layouts.

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

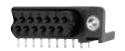


HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle—Without Boardlocks





With Threaded Insert



Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Zinc, chromate coated

Female Screwlocks—Zinc, chromate

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

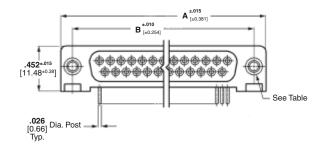
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

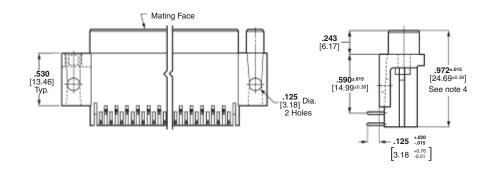
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40015

See customer drawings for printed circuit board layouts.





	No. of Contact Positions			Contact		Part Numbers	
Shell Size		Dimer	B B	Finish (Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
1 9		1.213	.984	Α	5747459-4	5747459-6	5747459-2
	9	30.81	24.99	В	5747459-3	5747459-5	5747459-1
2	15	1.541 39.14	1.312 33.32	Α	5747460-4	5748948-1	5747460-2
2				В	5747460-3	5747460-5	5747460-1
	0.5	2.088	1.852	Α	5747461-4	5747461-6	5747461-2
3	25	53.04	47.04	В	5747461-3	5747461-5	5747461-1
4	37	2.729 69.32	2.500 63.50	А	5747462-4	5747462-6	5747462-2
	50	2.635	2.406	Α	_	_	5206973-1
5	50	66.93	61.11	В	_	_	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-subs.

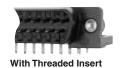


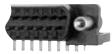
HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Plug-Without Boardlocks







With Female Screwlocks

Material and Finish:

Housing—94V-0 rated thermoplastic,

Threaded Inserts—Zinc, chromate coated

Female Screwlocks—Zinc, chromate coated

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

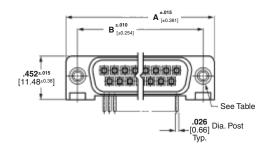
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

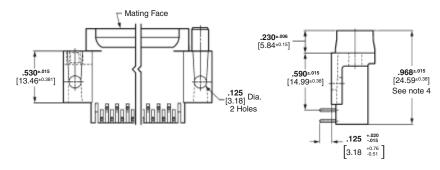
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification-114-40015

See customer drawings for printed circuit board layouts.





				Contact		Part Numbers	
Shell	No. of	Dimensions		Finish	With	With Fixed	With
	Contact Positions	Α	В	(Plating Code)	Threaded Inserts	Female Screwlocks	.125 [3.18] Mounting Holes
	0	1.213	.984	Α	5747467-4	_	5747467-2
ı	1 9 30.8	30.81	24.99	В	_	_	5747467-1
2	15	1.541 39.14	1.312 33.32	А	5748872-1	5748952-1	5747468-2
	0.5	2.090	1.852	Α	5748873-1	5748953-1	5748826-1
3	25	53.09	47.04	В	_	_	5748826-2
4	37	2.729 69.32	2.500 63.50	А	_	_	5747470-2
	50	2.635	2.406	Α	_	_	5206971-1
5	5 50	66.93	61.11	В	_	_	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-subs, GPL244.



Right-Angle Mounting Connectors — European Standard Footprint



Material and Finish:

Front Shell—Steel, tin plated
Housing—Black glass-filled polyester

Flammability --- UL 94 V-- 0

Contact Material—

Pin—Phosphor bronze

Socket—Phosphor bronze

 $\textbf{Contact Area Plating} \textcolor{red}{\longleftarrow} 0.76 \mu m \; \text{Gold}$

Current Rating—6A max.

Insulation Resistance— $5000~\text{M}\Omega$ 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



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— $5000~\text{M}\Omega$ 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— $5000 \text{ M}\Omega$ 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 Ω 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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